

Deposition of J. W. Mackenzie
read into proceedings.

IN THE CIRCUIT COURT OF BENTON COUNTY, MISSOURI

JAMES WEAVER,
JOHNNIE WEAVER,
LYLA MAE WEAVER,
JOE WEAVER,
MARY WEAVER and
LARRY WEAVER,
by next friend,

Plaintiffs,

vs.

CASE NO. 456

AMERICAN TOBACCO
COMPANY, INC.,

Defendant.

March 27, 1970
Warsaw, Missouri

VOLUME II

APPEARANCES:

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20 For the Defendant.

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2 THE COURT: You may proceed, Gentlemen.

3 MR. GEORGE MILLER: If the Court please, at this time
4 we offer in evidence the deposition of James W. Mackenzie.
5 It was taken on behalf of the plaintiffs in Room 305, North,
6 University Medical Center, Columbia, Boone County, Missouri,
7 starting at 1 p.m., on the 28th day of May, 1969.

8 For the plaintiffs, I appeared.

9 As appearances on behalf of the defendant were: Mr.
10 J. D. James, Mr. Edward R. Mosher, 25 Broadway, New York,
11 N.Y., and Miss Janet Brown, 25 Broadway, New York, N.Y.

12 This deposition is taken on behalf of the plaintiffs
13 before Walter D. Ratliff, Jr., Notary Public--

14 MR. HARDY: If you want to skip all the preliminaries,
15 we will save time.

16 MR. GEORGE MILLER: All right.

17 (The deposition of James W. Mackenzie, M.D., was then
18 read, Mr. George Miller reading the questions, Mr. Stelling
19 sitting in the witness chair and reading the answers of
20 James W. Mackenzie, and Mr. James reading his objections,
21 as follows:)

22
23 JAMES W. MACKENZIE, M.D.

24 of lawful age, being by me first duly examined, cautioned
25 and solemnly sworn to testify the truth, the whole truth
and nothing but the truth, deposed and said as follows:

DIRECT EXAMINATION

Q State your name, Dr. MacKenzie.

A James W. MacKenzie.

Q Where do you live, Doctor?

A [DELETED]

Q And what is your profession?

A I'm a surgeon.

Q Are you any particular type of surgeon?

A Yes, I'm a thoracic surgeon.

Q Doctor, will you tell the Court and the jury what you mean by a thoracic surgeon?

A A thoracic surgeon is a surgeon who deals in diseases of the thorax, specifically that's diseases within the chest, with the lungs, heart and Mediastinum.

Q Are you what is normally termed an M.D.?

A Yes.

Q And where did you attend school?

A I went to Medical school at the University of Michigan.

Q And go ahead and tell us, following your medical school, your graduation of medical school there, as I assume you did graduate there?

A Yes.

Q And what you did following that part of your

1 schooling?

2 A I took internship at the University of Michigan
3 Medical Center, followed this with four years of train-
4 ing in general surgery, two years of training in
5 thoracic surgery, was on the staff at the University
6 of Michigan for two years as an instructor in thoracic
7 surgery and then came here in 1962 as head of the
8 section of Thoracic and Cardiovascular Surgery.

9 Q And you say you came here in 1962.....

10 A The University of Missouri.

11 Q Are you connected with the University of Missouri
12 and if so, in what capacity?

13 A Yes, I'm Professor of Surgery and Chief of the
14 Section of Thoracic and Cardiovascular Surgery.

15 Q And how long have you been in that position in
16 the State of Missouri?

17 A I've been Chief of the Section of Thoracic and
18 Cardiovascular Surgery since July of 1962.

19 Q Did this Missouri University Hospital, and I
20 assume that we are presently in the Hospital, is that
21 correct?

22 A This is actually called the University of
23 Missouri Medical Center.

24 Q We are in the University Medical Center?

25 A Yes.

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2 MR. HARDY: She doesn't need to take it, if you are
3 going to read the whole thing. We can make any objections
4 or anything, we will note the page and the line at which
5 we are objecting, and then you don't need to take it (to
6 the reporter) except if we object.
7

8 (Reading of deposition resumed.)

9 Q And is there a portion of this building that
10 is used especially as a thoracic department?

11 A Well, we have our own bed area which is more or
12 less set aside and of course, we have certain rooms
13 in which we do most of our operations in the operating
14 rooms and then we have certain people that work only
15 within the Section of Thoracic and Cardiovascular
16 Surgery.

17 Q Are there other doctors connected with this
18 Thoracic Surgery Department?

19 A Yes.

20 Q About how many doctors do you have connected
21 with this department?

22 A I have two others who are my associates on
23 staff, and then we have two others taking training
24 in thoracic surgery and one general surgical resident
25 or training who works through our service.

1 Q Doctor, in order to be a thoracic surgeon,
2 does one undergo any special training or qualification
3 other than that of general surgery?

4 A Yes, ordinarily one does take special training
5 in thoracic surgery and also then undertakes to pass
6 the examination in thoracic surgery.

7 Q Did you do that?

8 A Yes.

9 Q How many years did you say you took in thoracic
10 surgery?

11 A Two years after completion of the general surgery.

12 Q Is there an American Board of Thoracic Surgeons?

13 A Yes.

14 Q And are you certified as a thoracic surgeon by
15 the American Board of Thoracic Surgeons?

16 A Yes. Actually I should say that the name is
17 the Board of Thoracic Surgeons, not American Board.

18 Q Could you tell us what this board is, who it is
19 composed of?

20 A This is a board of self-regulation, I guess one
21 could say, a recognition of training of thoracic
22 surgeons, so this is the normal early end point, I
23 guess one could say, of someone who has had training
24 in thoracic surgery, that is, desires to pass the
25 Board examination.

1 Q Now in order to be certified by this Board of
2 Thoracic Surgeons, do you take special examinations?

3 A Yes.

4 Q And you did that?

5 A Yes.

6 Q What societies, medical societies, if any, do
7 you belong to, Doctor?

8 A Well, I belong to the County, State and American
9 Medical Associations, belong to the American College
10 of Surgeons, Society of Thoracic Surgeons, American
11 Association for Thoracic Surgery, the Central Surgi-
12 cal Association, Society of Academic Surgeons, several
13 others whose names I can't recall.

14 Q When you said County and State, you're talking
15 about Boone County and

16 A Boone County, State of Missouri.

17 Q Doctor, in the practice of medicine in your
18 special field, are there occasional schools, seminars,
19 or places where you go for additional special training?

20 A Well, there are national meetings and regional
21 meetings given regularly, yes.

22 Q In connection with the Missouri University Medi-
23 cal Center, do you have a medical library?

24 A Yes.

MNAT 00002428

25 Q And are you a professor of thoracic surgery as

1 well as a practicing thoracic surgeon?

2 A Yes.

3 Q Do you teach in the University of Missouri
4 Medical School?

5 A Yes.

6 Q What subject or subjects do you teach?

7 A I teach thoracic surgery.

8 Q Have you been teaching thoracic surgery for
9 some six or eight years since you've been in Missouri?

10 A Almost seven years.

11 Q Now in connection with your teaching, do you
12 also have actual practice in the field of thoracic
13 surgery....

14 A Yes.

15 Qhere in the University Medical Center?

16 A Yes.

17 Q Would you know somewhere in the general area
18 about how many cases you've had in the Missouri Medi-
19 cal Center since you've been here in this department
20 of lung cancer patients?

21 A We've admitted to our service over 350 cases
22 in the last six years. We've seen a number of others
23 in consultation on other services and some we've seen
24 as outpatients and were not admitted.
25

Q In addition to your actual practice and in

1 addition to your studies in school, since you went
2 into actual practice and as a teacher in the University,
3 do you constantly read and keep abreast of magazines,
4 periodicals, and medical journals of various types?

5 A Well, I read a number of them.

6 Q You were the head of this thoracic surgery de-
7 partment in 1964, is that correct?

8 A Yes, I was.

9 Q I believe you have near you there on your desk,
10 the medical records of one Oris Lyle Weaver, is
11 that correct?

12 A That's correct.

13 Q Would you let me look at those just a minute,
14 Doctor? I believe, Mr. James, for the purpose of this
15 examination that you and I have agreed that these
16 medical records have been sufficiently identified,
17 is that correct?
18

19
20 MR. EARDY: I think the only ones I identified were
21 the ones from the Department. Anyway, let's skip that.
22 There is no question about the medical records.
23

24 (Reading of deposition continued.)

25 (REPORTER MARKED PLAINTIFF'S EXHIBIT 1 FOR IDENTIFICA-
TION)

1 Q Doctor, I hand you what has been marked
2 Plaintiff's Exhibit 1 and I'll ask you to tell us
3 what that is.

4 A This is the medical records of the University
5 of Missouri Medical Center on Cris Lyle Weaver, it
6 carries his registration number at the center, 053720.
7 It consists of the record of his visits here as an
8 outpatient and his stay here as a patient in the
9 hospital on two occasions as well as supporting
10 medical records for those times.

11 Q Now so far as you know, does this package con-
12 tain the entire medical records of Cris Lyle Weaver
13 during his stay here on two occasions and during his
14 treatment here as an outpatient?

15 A As far as I know, it does.

16 Q Plaintiff's Exhibit 1 consists of a light beige
17 colored cover with several inserts, is that correct?

18 A Yes.

19
20
21 MR. GEORGE MILLER: With permission of counsel for
22 the defendant, I will skip the next questions and answers.

23 MR. HARDY: Skipping to page 12, line 2.

24
25 (Reading of deposition continued.)

1084

MNAT 00002431

1 Q I believe, Dr. MacKenzie, that these records
2 indicate that Oris Lyle Weaver was in this hospital
3 on two occasions in 1964. The first occasion was
4 February 7th, 1964 and I believe the second occasion
5 was April 22nd, 1964. During that time, did you
6 personally become acquainted with Oris Lyle Weaver?

7 A Yes, I did.

8 Q And was he a patient here in the Missouri Medi-
9 cal Center in the Thoracic Department?

10 A He was.

11 Q And was he one of your patients?

12 A Yes.

13 Q Did you have occasion to visit with him and to
14 discuss his complaints with him and his history of
15 the time at least, immediately prior to his entry into
16 the hospital here and did you also consult with, advise
17 with, and assist in the treatment of this individual
18 and with the diagnosis and prognosis of his case.

19 A Yes.

20 Q Doctor, I know that on some of these sheets in
21 Plaintiff's Exhibit No. 1, there is a statement which
22 says "Attending Physician, James MacKenzie, M.D."

23 Now, are you the James MacKenzie that is represented
24 here as being the attending physician?

25 A I am.

1005

MNAT 00002432

1 Q In other words, you were the attending physician
2 of Oris Lyle Weaver while he was in the hospital?

3 A That's right.

4 Q Do you recall from what hospital or institution
5 this man was referred to the Missouri Medical Center?

6 A I don't recall offhand.

7 Q If, by refreshing your memory, and I don't think
8 there is any question about this, his being referred
9 to you by the Wetzel Clinic at Clinton, Missouri, does
10 that refresh your memory?

11 A Yes.

12 Q Is it the customary thing for the staff members
13 or someone connected with the University Hospital to
14 take the medical history and make a summary of that
15 medical history for your benefit as well as the
16 doctors on the staff, for the benefit of all of you?

17 A It's customary to have a history taken by a
18 student as well as a member of our resident staff.

19 Q I direct your attention to one of the pages in
20 this Plaintiff's Exhibit No. 1, to the page called
21 University of Missouri Medical Center Summary and
22 which is composed of the summary being composed of
23 two pages, your name being signed to the second page
24 as the attending physician and ask you if you recall
25 that that was the summary of the medical history and

1002

MNAT 00002433

1 the history of this man as given to you and the
2 members of the staff by Oris Lyle Weaver?

3 A Yes.

4 Q And that was taken upon his first entry into
5 the hospital, I assume, February, 1964?

6 A Yes.

7 Q Would you tell us what his complaints were when
8 he entered the hospital?

9 MR. JAMES: Pardon me, may I ask a question
10 for the purpose of a possible objection?
11 Doctor, as I understand it, you get two
12 separate histories upon the entrance of a
13 patient into the Medical Center, one taken
14 by a student and one taken by a resident?

15 A Well, we often do, not always.

16 MR. JAMES: Do you know what was done in
17 this case?

18 A I think he had two.

19 MR. JAMES: Neither one of those was taken
20 by you, however?

21 A No.

22 MR. JAMES: Then I object for the reason
23 unless the doctor took it, for the reason
24 the record is the best evidence and he said
25 he didn't take it, and I object.

1007

Q I withdraw the question and ask the doctor this question. Doctor, assuming that the medical record summary indicates that the admission was 2-7-1964, the discharge date was 2-21-64 in which the man gives the history as follows: This is a 43 year old white male mechanic who gave the following history. In January, 1963 he was in an automobile accident and was hospitalized 10 days. At this time he had several chest x-rays. In August, 1963, he inhaled fumes from an oil pan which exploded near him. In October, 1963 he had pain in his left chest which was intense and boring through. In November, 1963, he noticed severe cough, especially in the morning. In December, 1963, he had one episode of gross hematemesis. He also complained of a from 15 to 35 pound weight loss. He had pain in the back and shoulders. The patient gave a history of smoking two packs of cigarettes a day for 30 years. Patient had no history of tuberculosis. He complained of fatigue and shortness of breath. As you recall, would that be about the history that was given to you and submitted to you by this patient and by the hospital staff on behalf of the patient?

MR. LADDY: Skip that one.

1 (Reading of deposition continued.)

2 Q My question was, do you recall that this is
3 approximately the history that was given to you for
4 this man?

5 A Well, what do you mean by approximately?

6 Q Substantially, is this as you recall?

7 A Yes.

8 Q Now, Doctor, let me ask you this, as the attend-
9 ing physician of James Mackenzie, you had access to
10 all.....the attending physician of Oris Lyle Weaver;
11 you had access to all the medical records, did you
12 not?

13 A Yes.

14 Q And since he left this hospital, you have had
15 access to the medical records?

16 A Yes.

17 Q Have you in the past few months, at my request,
18 reviewed the medical records of Oris Lyle Weaver?

19 A Yes, I have.

20 Q And have you reviewed the x-rays that were taken
21 here in the University Hospital of Oris Lyle Weaver?

22 A I have.

23 Q Have you also, at my request, reviewed the
24 medical records of the Wetzel Hospital in Clinton?

25 A I have.

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MNAT 00002436

1 Q And have you reviewed the x-rays that were taken
2 at the Wetzel Hospital in Clinton?

3 A I have.

4 Q Doctor, based upon the history that this man
5 gave you, and based upon the findings in the hospital
6 here, did you as attending physician reach any con-
7 clusion at the time Oris Lyle Weaver was in the
8 hospital as to what condition he was suffering from?

9 MR. JAMES: I object to that for the reason
10 there is no sufficient foundation to enable
11 the doctor to give an opinion.

12 A Yes.

13 Q What conclusion did you reach as to what
14 condition--
15

16 MR. HARDY: I am going to have to ask the witness
17 not to answer until the Court rules on the objection.

18 I guess we'd better waive that objection.

19 THE COURT: I thought perhaps the answer had been
20 made.
21

22 (Reading of deposition continued.)

23 Q What conclusion did you reach as to what condi-
24 tion this man was suffering from?

25 A We reached the conclusion that he was suffering

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27 MNAT 00002437

1 from neoplasm of the lung with spread to the lymph
2 nodes in the left side of the neck.

3 Q Now by neoplasm of the lungs, in ordinary lay-
4 man's language, is that what we call cancer of the
5 lung?

6 A Yes.

7 Q And based upon that conclusion, is that the con-
8 dition which you as the attending physician and the
9 hospital medical center here treated Mr. Weaver for?

10 A Yes.

11 Q Based upon the history that you were given and
12 upon the examination which you made and the conclusion
13 you reached as to what this man was suffering from,
14 did you reach any conclusion, Doctor....an opinion as
15 to the cause of this cancer or neoplasm of the lung?

16 A I reached.....

17
18 MR. HARDY: Skip it.

19 MR. JAMES: We will withdraw.
20

21
22 (Reading of deposition continued.)

23 Q Doctor, I believe, in repeating my question; did you
24 reach a conclusion of this neoplasm or cancer of the left
25 lung?

A Yes, we did.

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MNAT 00002438

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Q And would you give us your opinion, based upon
reasonable medical certainty as to the cause of this
neoplasm?

MR. HARDY: You can skip it, again.

(Reading of deposition continued.)

A We felt that this man did have a carcinoma of
the lung. On the basis of the examination, the x-ray
findings, the history of smoking a number of packages
of cigarettes for many years, combined with the biopsy
of the lymph nodes taken from the left side of his
neck, we felt that he did have carcinoma of the lung
and that with reasonable certainty this was due to
smoking cigarettes, this number of cigarettes for
this period of time.

Q Doctor, while Mr. Weaver was in here, were
there some biopsys made, and if answering this
question, if you desire to, you may refer to the
medical records?

A There are pieces of tissue taken both from
the lymph nodes in the left side of the neck as well
as from the main airway, the trachea, where it divides
into the right and left sides.

Q And did either...I'll ask you to tell the Court

1 and the jury, what if anything, either one or both
2 of these operations disclosed with reference to this
3 man's condition?
4

5 MR. STELLING: This shows an objection by Mr. James.

6 MR. JAMES: Is this at the bottom of--

7 MR. STELLING: --page 19.
8

9 (Reading of deposition continued.)

10 MR. JAMES: May I again ask a question for
11 the purpose of a possible objection?

12 Doctor, do you remember what the results were,
13 except from the lines upon the record which
14 you have in your hand?

15 A I think I'll have to have that clarified a
16 little bit, you mean, if had I not reviewed the record?

17 MR. JAMES: Not quite. Perhaps, I should
18 put it this way. Are you able to tell exactly
19 what those findings were from your own memory
20 without being as refreshed from the records,
21 or do you now have to rely to some extent
22 upon the records themselves for the exact
23 findings from these facts?

24 A For instance, I don't know how precisely you
25 require me to answer the question as put to me by

1 Mr. Miller, I can say that the biopsy of the division
2 of the trachea showed squamous metaplasia as I recall.
3 I also recall that the lymph nodes at the base of the
4 neck showed undifferentiated carcinoma of the spindle-
5 cell type and this I can recall.....

6 MR. JAMES: From having refreshed your memory?

7 A Yes.

8 MR. JAMES: But further than that and as to
9 the exact record findings, you, of course,
10 would have to rely upon the records?

11 A Yes.

12 Q You do recall that such operations were performed
13 on this man?

14 A Yes, yes.

15 Q And tell us what you mean by the operation in
16 which the biopsy was taken from the avenue that leads
17 into the lung itself?

18 A This is the biopsy of the carina which again is
19 the place of the division of the main air passage of
20 the trachea to the right and left bronchi and this
21 biopsy was done at bronchoscopy whereby a tube is
22 passed through the mouth and into the air passage and
23 a piece of tissue taken.

24 Q And is that what was done in Mr. Weaver's case?

25 A This was done in Mr. Weaver's case. This tissue

1 was reported as showing squamous metaplasia.

2 Q Now then, as to the biopsy of the left node,
3 could you tell us how that was carried out?

4 A It was carried out under local anesthesia (sic).

5 Q Tell us the surgical method by which the biopsy
6 was carried out of the left node?

7 A Of course, I did not do this operation myself.

8 Q Yes, I understand that.

9 A And I assume this was done in the way that it
10 is usually done here. According to the report of
11 the operation, it was done, the incision was made in
12 the anterior portion of the neck above the clavicle,
13 the lymph nodes exposed and either all or part of them
14 removed for examination.

15 Q And then this biopsy that we talk about, is that
16 a cutting or a piece of the actual lymph node itself?

17 A It may be whole node or it may be a portion.
18 There are more than one.

19 Q And then tell us whether or not, this node or
20 portion thereof, is studied by powerful microscope to
21 determine the actual cellular makeup?

22 A Well, this tissue is then taken to the Pathol-
23 Department where physicians who specialize
24 at tissue, treat it, stain it, and then
25 under a microscope.

1 Q I direct your attention to one portion of this
2 medical record which says "Operative Record, Thoracic
3 Surgery, being a gray sheet, and says "Approved by
4 J. W. Mackenzie, M.D." And is that a portion of the
5 record regarding the operation that you performed?

6 A Well, this is the portion concerning the first
7 operation, the bronchoscopy where tissue was taken
8 from the carina.

9 Q And did this record here that I've handed you,
10 is this a correct summary of exactly what was done on
11 this occasion?

12 A Well, again, I was not at the operation and the
13 approval as evidenced by my signature is merely that
14 the form of the operative note as was dictated by
15 resident, Dr. Trask, is correct. I see no incon-
16 sistencies.

17 Q Is that the usual type of an operation you
18 perform in a case of that sort?

19 A Yes.

20 Q You have reviewed these various operative
21 records that are contained in Mr. Weaver's folder, have
22 you not?

23 A Yes, I have.

24 Q And are these various operative records the
25 usual and ordinary type of operative procedures in a

114

MNAT 00002443

1 case such as Mr. Weaver's?

2 A Yes.

3 Q I direct your attention, Dr. Mackenzie, to the
4 yellow sheet of Mr. Weaver's hospital records and the
5 title at the top of the page being admission records,
6 and direct your attention to your signature at the
7 bottom of that page?

8 A Yes.

9 Q Now, the record itself, says "Discharged,
10 diagnosis; bronchogenic carcinoma and will you read
11 us the rest of the sentence?

12 A With cerebral and osseous metastasis, post
13 irradiation therapy.

14 Q So that will be better identified, what was the
15 day of that?

16 A These are for his.... there should be a dis-
17 charge and a date there. Discharged, yes. Admission
18 date, 4-22-64, discharge date, April 25th.

19 Q Will you be a little bit more specific, Doctor,
20 and explain for the members of the jury, what do we
21 mean by bronchogenic carcinoma?

22 A This is a carcinoma form of cancer which arises
23 from the lung, more specifically, the bronchi of the
24 air passages of the lung.

25 Q And what do you mean by cerebral metastasis?

11177

MNAT 00002444

1 A This has to do with spread to the brain.

2 Q And you mean then by this sheet, by the wording
3 of this sheet, that before, or when Mr. Weaver was
4 discharged and by April 23rd, 1964, this cancer in
5 his lung has spread to the brain?

6 A This was our clinical diagnosis, yes.

7 Q And what do you mean by osseous metastasis?

8 A That is bone spread.

9 Q What do you mean by post irradiation therapy?

10 A This is following radiation therapy, after
11 treatment with radiation therapy.

12 Q Was Mr. Weaver treated with radiation therapy
13 here at the Medical Center?

14 A He was.

15 Q And was that prior to his last admission in the
16 latter part of April, 1964?

17 A It was.

18 Q And was it between his first admission in February
19 and his second admission in April, that he was treated
20 here at the University Medical Center?

21 A I think I'd have to review the record to be
22 sure he didn't start it before his discharge, but it
23 was completed.....he was started on radiation therapy
24 prior to his discharge and it was completed as an
25 outpatient, as I recall.

114

MNAT 00002445

1
2 MR. GEORGE MILLER: Mr. James, did you want to read
3 that?

4 MR. JAMES: That isn't necessary.
5

6 (Reading of deposition continued.)

7 Q Doctor, I'll hand you what has been designated
8 as Defendant's Exhibit 9 being one of the x-rays that
9 was purportedly taken at the Missouri University Center
10 and I'll ask you to look at this x-ray under glass here
11 ...First, I'd like for you to give us the date that
12 this x-ray was taken.

13 A The date on the x-ray is February 7th, 1964.
14

15 MR. GEORGE MILLER: At this time, I would like for
16 the record to show, if the Court please, that I had handed
17 Dr. Mackenzie what at that time had been designated as
18 Defendant's Exhibit No. 9 and has now been introduced as
19 Plaintiff's Exhibit No. 36. (Mr. Miller indicating Exhibit
20 36 at the viewbox.)
21

22 (Reading of deposition continued.)
23

24 Q And was this one of the x-rays taken of the chest
25 and chest cavity of Oris Lyle Weaver?

A Yes, it is.

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MNAT 00002446

1 Q I would like for you as a thoracic surgeon and the
2 attending physician of Oris Lyle Weaver to tell the
3 members of the jury and the Court exactly what you
4 find from your examination of this x-ray?

5 A Before I do that.....
6

7 MR. JAMES: Now, George, you can skip my comment and
8 those other questions, or read the other questions--whatever
9 you like.

10 MR. GEORGE MILLER: All right.
11

12 (Reading of deposition continued.)

13 MR. MILLER: For the purpose of the record,
14 we'll back up just a bit here and let me ask
15 Dr. Mackenzie these questions.

16 Q Dr. Mackenzie, as a part of your studies as a
17 medical student in the University of Michigan, did
18 you study x-rays, the interpretation and the reading
19 of x-rays?

20 A We did have some courses involving that, yes.

21 Q Since your graduation and in the practice of
22 medicine, is that a part of your medical practice to
23 be able to study and read these x-rays?

24 A As far as chest x-rays, yes, Sir, indeed.

25 Q And do you do this type of work almost daily in
26

1 your work here at the University Medical Center?

2 A We look at the x-rays of our patients every day
3 and also those we see in consultation.

4 Q And have you over the course of years, looked at,
5 observed and read thousands of x-rays?

6 A At least many hundreds, if not thousands.

7 Q And do you use these x-rays when you are teaching
8 your classes for young doctors?

9 A Yes.

10 Q And do you explain and read from these x-rays
11 and interpret (sic) these x-rays to your classes?

12 MR. JAMES: Pardon me, George. I think
13 you're getting a little leading and I
14 don't mind on formal questions but to get
15 into the real guts of this thing, I think
16 you ought to not lead the doctor and I'm
17 sure the doctor doesn't need to be lead (sic).
18

19 Q Doctor, in your teaching, I'll ask you if you do
20 read x-rays and explain them to your class?

21 A Yes.

22 Q And have you looked at and studied this x-ray that
23 we've spoken of here of Cris Lyle Weaver on various
24 occasions?

25 A Yes, I have.

Q Now, will you then point out, by oral testimony

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MNAT 00002448

to the members of the jury exactly what this x-ray discloses?

A This is an x-ray of Mr. Weaver, identified by the registration number and name, an x-ray of the chest, includes the lung, mediastinum and the heart. There is one area of major interest that is most apparent and that is an abnormal shadow or density in the hilum of the left lung. I think for the localization of this it would be more accurate to look at the lateral x-ray which was made accompanying (sic) this. There is a small apparent (sic) infiltration more distally in the lung on the left side.

MR. GEORGE MILLER: Mr. Jones then makes the note that at that time the Doctor was looking at Defendant's Exhibit No. 10--which has now been introduced as Plaintiffs' Exhibit No. 37.

(Reading of deposition continued.)

Q Doctor, will you tell us from your examination of these, both of these films, what they show?

A The major abnormality again, is a mass involving the hilum of the left lung.

Q You're looking and pointing with your pencil now to Exhibit No. 9....

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MNAT 00002449

1 A This localized here.....

2 Q Number 10. Doctor, I'm going to ask you to take
3 your pen and if you will, put a small "w" or an "x"
4 if you prefer, in the center of the location of these
5 density areas that you have spoken of.
6

7 (Mr. George Miller indicating exhibit on the viewbox.)
8

9 (Reading of deposition continued.)

10 You're using now a red pencil and I'm asking you to
11 put a small "w" at the center of this area which
12 you've spoken of as shown by the x-ray which has been
13 identified as Defendant's Deposition Number 9. Now,
14 if you will, look also at the Exhibit Number 10,
15 Defendant's Deposition Exhibit Number 10, and take
16 your red pencil and mark where you believe the center
17 of that dense area to be, if it is shown on that.

18 A I must say that the limits of it are not quite
19 as clear in the lateral.
20

21 Q Did you finish, Doctor? Is the center where that
22 "w" is?

23 A The limits are not as clear because it's super-
24 imposed upon the other structures.

25 Q Now, where with reference to the bronchi or the
bronchus, or whatever you call it, is this dense area

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MNAT 00002450

located?

A This is near the major branch of the left side.

Q I noticed from the pathologists (sic) report, or one of the x-ray....maybe the x-ray report in the records, that a left hilar mass was spoken of. Is this the stain you just pointed out on these two x-rays?

A Yes. This is a left hilar mass.

Q Hilar mass?

A Yes.

Q And this mass that you've talked about, this area that you've talked about in the left lung of Mr. Weaver, is that in ordinary layman's language, the cancer that you've spoken of?

MR. JAMES: The objection is withdrawn.

(Reading of deposition continued.)

A I think in terms of interpretation (sic) of an x-ray, we can say this is an abnormal shadow, an abnormal mass lesion. On the basis of the x-ray alone, one cannot make a definite diagnosis.

Q Now, based upon all of the examination and the history and everything that was done for Mr. Weaver and all these records here at the hospital, based on your personal observation and attendance, I'll ask

101A

MNAT 00002451

1 you if, taking all things into consideration, is
2 this the location of what you previously told us was
3 the cancer of the left lung?

4 MR. JAMES: I object to that for the reason
5 that it dumps in a basketful of hypothesis
6 in referring to the whole records and I
7 think the doctor also states specifically....
8 or the question ought to state specifically,
9 what the facts are on which he bases his
10 answer.
11

12 THE COURT: What was the first part of the question
13 again?

14 MR. GEORGE MILLER: "Now, based upon all of the
15 examination and the history and everything that was done
16 for Mr. Weaver and all these records here at the hospital,
17 based upon your personal observation and attendance, I'll
18 ask you if, taking all things into consideration, is this
19 the location of what you previously told us was the cancer
20 of the left lung?"

21 THE COURT: It will be overruled.
22

23 (Reading of deposition continued.)
24

25 Q You may answer.

A Would you repeat the question?

MR. GEORGE MILLER: The court reporter reads the question.

Now, read your answer.

(Reading of deposition continued.)

A Yes.

Q Doctor, I'm going to ask you a hypothetical question. And in this question, we assume various hypothesis, and at the conclusion of this hypothesis, then I'll ask you to give us an opinion. Assuming that Chris Lyle Weaver was born on January 22nd, 1921 at Kingson, Missouri. He served about three years in the United States Navy beginning about 1937, that during his young adult life after his discharge from the Navy, he worked on a farm, he worked as a mechanic in garages, that he worked for a year or two as a floor sander in Kansas City, that he worked at North American plant in Kansas City on some type of a machine for a short period of time, that he worked for a very short period of time as a fireman on the railroad, that he started working in a Chevrolet garage in Trenton, Missouri in 1945 and worked there for about a year as a mechanic. He went to Arizona, he worked in a garage at Casa Grande, Arizona as a mechanic for about a year

1 and went to Las Vegas, Nevada and worked for a short
2 time as a mechanic, assuming further that he came back
3 to Gilman City which is in northwest Missouri. In
4 about 1948, he purchased a garage which was used for
5 the general care of automobiles, farming equipment,
6 that he moved to Warsaw, Missouri, in about 1957 and
7 built his own garage, and worked thereafter in his own
8 garage from 1947 up until the time of his death or up
9 until the time he became so incapacitated that he
10 could no longer work. That this garage was approxi-
11 mately 24 by 38 feet, had a door in either end, that
12 it had two large fans standing up on stands that were
13 used for ventilation, that he had other small fans that
14 he used for ventilation. Assuming that his mother's
15 maiden name was McBride, that she died of cancer of
16 the liver in 1956, that his father's name was John
17 Walter Weaver, that he died about the age of 67, he
18 died of hardening of the arteries, a heart attack.
19 Assuming that he fell out of a tree when he was coon
20 hunting about 1949 and broke a leg, that he was for
21 all of the active portion of his life, from the time
22 he got out of the Navy until a few months before his
23 death that he was a great outdoorsman, that he fished
24 and hunted a great deal. Assuming further that he
25 drank some whiskey, that he drank some beer. Assuming

1 further that from the time he was in his teens, he
2 began to smoke and particularly during the latter few
3 years of his life, he smoked an average of two or more
4 packs of cigarettes per day. Assuming further, Dr.
5 Mackenzie that he was an avid smoker and by an avid smoker,
6 I mean one who smokes regularly, consistently, and
7 that he was an habitual inhaler of smoke, that he would
8 frequently light one cigarette from another, being what
9 is commonly referred to as a chain smoker, that he
10 worked as a mechanic and during many hours of the day
11 while he was working, at least during portions of the
12 hours of the day while he was working, he had a
13 cigarette in his mouth, and instead of removing the
14 cigarette from his mouth, he was constantly inhaling
15 the smoke from the end of the cigarette as well as
16 smoking the cigarette. Assuming that one of the first
17 acts he would commit upon waking up in the morning
18 was to light a cigarette, that he continued this practice
19 of smoking cigarettes right until the time he was first
20 admitted to the hospital here in 1964. That he tried
21 on different occasions to quit smoking cigarettes but
22 didn't seem to be able to accomplish this feat and
23 continued to smoke. Assuming further that these two
24 periods of time that he spent in the hospital here, that
25 you've told us about, that you've testified to from

END

MNAT 00002455

these records, assuming further that January 1963, he was involved in an automobile accident and was hospitalized in the Wetzell Hospital, that he complained of pains in his chest, of an injury to his chest, that the x-rays of this hospital showed no broken bones and no pathology and that he was discharged from the hospital apparently in good physical condition.

Assuming further that in August of 1963, he inhaled some fumes from an oil pan which exploded near him but was not hospitalized and had no further complaints from this episode. Assuming that in October, 1963, he developed pain in his left chest which was intense, that in November of 1963, he noticed severe cough, especially in the mornings, assuming that he had pain in his back and shoulders and with the history of smoking that I've given to you, assuming that he had no history in his background at all of tuberculosis, that he further complained of fatigue and shortness of breath, assuming that he came to this hospital in February, 1964, and the diagnosis which you've already spoken of was made, assuming further that he was discharged from the hospital about the 21st of February, 1967...63....'64, correction, and that then this treatment of therapy was performed on Mr. Weaver for a period of time, he was readmitted to the hospital on or about

1 April 22nd, 1964 and these further x-rays and diagnosis
2 was made. Assuming that after he left the hospital,
3 and I'm speaking of the Missouri University Hospital,
4 here, the latter part of April, I believe April 23rd,
5 1964, he went back to his home near Warsaw, Missouri.
6 Assuming further, that in the few days remaining of
7 his life, he experienced constant pain, progressive
8 weakness, that he took sedatives and that he took
9 various medications as pain relievers, assuming further
10 that he gradually grew weaker and weaker until he died
11 on or about May 9th, 1964, would you give us first,
12 Doctor, your opinion as to the cause of his death on
13 May 9th of 1964?

14 MR. JAMES: I object to the question for the
15 reason it assumes as true facts that are not
16 in evidence and fails to include other facts
17 in evidence that would be necessary in order
18 to enable the doctor to give an opinion
19 without resorting to pure speculation at
20 best.
21

22 Q You may answer the question. Do you have an
23 opinion as to the actual cause of his death?

24 A Yes, I do.

25 Q And would you tell us what that opinion is?

MR. JAMES: Same objection.

MNAT 00002457

1 A I think this man died of metastasis from broncho-
2 genic carcinoma.

3 Q And assuming all those facts stated in that
4 hypothetical question, would you give us your opinion
5 as to the cause of the bronchogenic carcinoma.

6 MR. JAMES: Same objection.

7 A I think the bronchogenic carcinoma was caused by
8 the prolonged smoking over a number of years of
9 cigarettes.

10 MR. MILLER: You may inquire.
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1 (Whereupon Mr. Hardy takes the stand and reads the
2 Answers while Mr. James reads the following Questions as
3 follows:

4 CROSS EXAMINATION

5 BY MR. JAMES:

6 Q. First, Doctor, I think, for the record, I think
7 we should count pages and state them into the record
8 that are contained in Defendant's Exhibit one and I'd
9 like for you to check my count, if you would, please,
10 Not that I don't trust myself, but I don't want to miss
11 any. This is off the record while I'm counting.

12 MR. MILLER: For the purpose of the record,
13 Plaintiff offers into the record, Plaintiff's
14 Deposition Exhibit Number 1.

15 Q. Let the record show that Plaintiff's Exhibit 1 is
16 a clip or folder containing a folder of 75 separate
17 sheets, some of which have entries on both sides of
18 them and some of which have smaller sheets pasted onto
19 them and that this count has been made by both the
20 attorney and by the doctor as being 75 sheets. Doctor
21 Mackenzie, have you been advised of the trial date of
22 this lawsuit in which you will testify?

23 A. Yes, in general terms.

24 Q. It's in late October. Where do you expect to be
25 at that time?

1 A. In New Jersey.

2 Q. Are you changing jobs?

3 A. Yes.

4 Q. Where are you going?

5 A. It will be the Medical School of Rutgers University
6 in New Brunswick.

7 Q. As a professor?

8 A. And chairman of the Department of Surgery.

9 Q. Of Surgery?

10 A. Yes.

11 Q. Do you expect to appear in person as a witness at the
12 trial of this case?

13 A. No.

14 Q. Were you ever asked by Mr. Miller to appear in
15 person?

16 A. Yes.

17 Q. When was that?

18 A. I can't recall the date. It was some months ago...

19 Q. Was it sometime within the last year?

20 A. I think so, but again, I just don't recall.

21 Q. Was that the first time you'd talked to Mr. Miller
22 about the case?

23 A. I can't recall the first time that I talked with
24 Mr. Miller about the case, but the first time I recall
25 talking with Mr. Miller was when he said that there was

1 a possibility of pending litigation or there was
2 litigation.
3 Q Either a possibility of pending litigation or that
4 there was?
5 A My recollection is vague.
6 Q But you had discussed the case with Mr. Miller
7 prior to the occasion on which you told him you were
8 going to be gone to Rutgers is that correct?
9 A I'm not sure. I didn't keep a record of these
10 consultations we've had so I would be just guessing.
11 I really don't know.
12 Q How long have you known you're going to Rutgers?
13 A Approximately five months.
14 Q As I understand, you don't recall when you first
15 talked to Mr. Miller about the case?
16 A No.
17 Q Can you place it within years?
18 A It wasn't two years ago, I'm quite sure of that.
19 I think it was within the last year, but I'll ^{just} have to
20 be vague because I have no record of it.
21 Q How many times have you discussed the case with
22 Mr. Miller since then?
23 A In general terms or in specific terms?
24 Q Specific terms.
25 A Three times, I believe.

1 Q. And when was the last time prior to today?
2 A. Yesterday.
3 Q. Do you recall the last time prior to yesterday?
4 A. Day before yesterday.
5 Q. Do you recall the last time before that?
6 A. No, I don't.
7 Q. Have you discussed the case with anyone else
8 since the death of Mr. Weaver?
9 A. In general terms, I have. I've discussed the case
10 with our pathologist. I don't recall anyone else.
11 Well, wait.....I did discuss the case with the head
12 of radiology in general terms because at one time we
13 were looking for the x-rays and they were out of the
14 hospital and we thought at that time they were lost
15 and I told him that we'd better see about finding them.
16 So those are the two people that I've discussed it
17 with.
18 Q. That was Dr. Calvin Templeton?
19 A. That was after Dr. Templeton had gone. It was
20 Dr. Lodwick.
21 Q. That must have been after the x-rays were intro-
22 duced into evidence?
23 A. I think so but their records were deficient and
24 they thought they had lost them for awhile.
25 Q. And the pathologist was Dr. Lucas?

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- 1 A. No.
- 2 Q. Who was it?
- 3 A. It was Dr. Kerr.
- 4 Q. K-e-double-r?
- 5 A. Yes.
- 6 Q. Is he now in the pathology department?
- 7 A. He's head of anatomical pathology.
- 8 Q. And how long has he been head of anatomical
- 9 pathology?
- 10 A. It would be a guess. Two years, perhaps.
- 11 Q. Do you recall whether he was head of that depart-
- 12 ment when Mr. Weaver was in the hospital?
- 13 A. Again, it's just a recollection and I don't
- 14 believe he was when Mr. Weaver was in the hospital but
- 15 he may have been.
- 16 Q. Did the pathologist at that time, Dr. Kerr, that
- 17 is, tell you that he had examined the slides by any
- 18 chance?
- 19 A. No.
- 20 Q. Have you discussed it with Dr. Lucas?
- 21 A. No, I have not.
- 22 Q. Have you ever discussed it with Marjorie Weaver
- 23 Thompson, the ex-wife of Lyle Weaver?
- 24 A. May have, but I don't recall.
- 25 Q. Or any of the plaintiffs in this case who are the

MNAT 00002463

children of Lyle Weaver?

A. I may have met them during his hospitalization but to my knowledge, I haven't.

Q. Can you tell us what documents relating to Mr. Weaver you've examined, you've already stated that you've examined the hospital records....

A. (INTERRUPTING) Records.

Q. (CONTINUING).... and the x-rays.

A. And the x-rays.

Q. Are there any others?

A. I have looked at copies of the two hospitalizations in Clinton, Missouri at the Veteran's, I believe.... excuse me, Wetzel Osteopathic Hospital.

Q. Were they charts?

A. Charts.

Q. When did you first look at those?

A. I can't remember, but it was sometime within the last two months, I would think.

Q. I believe you also said you looked at some x-rays that were made at the Wetzel Clinic?

A. Yes.

Q. Was that at the same time?

A. I don't...I've seen those x-rays, but I don't recall if it was exactly at the same time.

Q. Could it have been since?

2137

MNAT 00002464

1 A Yes.
2 Q When was the last time you saw them?
3 A The x-rays?
4 Q From the Wetzel Clinic, yes?
5 A This morning.
6 Q How many were there?
7 A I can't remember exactly, about five.
8 Q Are they here in the office?
9 A Yes.
10 Q You've indicated some papers which appear to be
11 charts, are those the Wetzel Clinic charts?
12 A Yes, they are.
13 Q May I see those, please? Off the record, these
14 are the ones that have been put in evidence.....
15 Doctor, you're more familiar with these than I am.
16 Would you state when these two admission and discharge
17 dates were at the Wetzel Clinic?
18 A Well, the date on the chart showed the earliest
19 one as an admission of February of 1963.
20 Q This is the first one?
21 A That we have here, yes. And the second one is
22 for.....
23 Q (INTERRUPTING) Could you give me the discharge?
24 A Oh, the discharge.....the admission date was
25 February 3rd, 1963 and the discharge is listed here on

1 Dr. Wetzel's record as the 8th of February, 1963 and
2 the date of admission for the later admission was given
3 on the record here as 4-22-64. The date of discharge...

4 Q. Doctor, 4-22-64, he was admitted?

5 A. I don't know when he was admitted, but this is
6 what

7 Q. (INTERRUPTING) I see, what is the discharge date?

8 A. The discharge date, I think, is probably incorrect
9 here. In going over these, we've noted incompatibility
10 with our own record. I think the discharge date was
11 4-22-64, but according to this, it says 4-24-64.

12 Q. Can you tell from the record that he was in the
13 Wetzel Clinic as much as two days?

14 A. It's difficult to tell from their record. They
15 have the admission note as dated 4-21 in contrast to the
16 one on the outside and it's difficult for me to tell
17 for sure. I think the most reliable information pro-
18 bably is on the nurses note.

19 Q. Do you have that? Can I see the original? I
20 wonder, Doctor, if the nurse's notes don't show that he
21 went in on April 21st....

22 A. Yes.

23 Q. (CONTINUING) ... and left on the 22nd?

24 A. Yes, I would think those are probably correct.
25 The problem of course, is that their admission note

1180

MNAT 00002466

1 there, the 23rd and 24th as signed, which are incom-
2 patible with our records. I think he left on the
3 22nd because this is the last time we have any of the
4 nurse's charting done which is reasonably reliable in
5 this hospital.

6 Q. Are there any nurse's notes? They say 4-24 also,
7 don't they?

8 A. I think these are in error. I think there's no
9 question judging from our record that he came to here
10 the evening of the 22nd.

11 MR. MILLER: Off the record, Mr. James, one of
12 the records of the Wetzel Clinic says he was
13 dismissed on the afternoon of the 22nd to be
14 transferred to the University Hospital.

15 MR. JAMES: George, do you have the x-rays from
16 Wetzel?

17 MR. MILLER: Yes, do you want those now?

18 MR. JAMES: Yes.

19 Q. Now, Doctor, when I asked you if you had viewed
20 the x-rays taken at the Wetzel Clinic, you told me you
21 had and that they were negative?

22 A. I don't recall that I said they were negative.

23 MR. MILLER: He didn't say anything about them.

24 A. I said that I had looked at them, period.

25 Q. Could you find, again as you're better at checking

1 these charts than I am, the x-ray reports in the Wetzel
2 records?

3 A. From which admission?

4 Q. Either one, I don't know which time x-rays were
5 made. I believe they were made on the first admission.

6 A. They were made the second admission, too.

7 Q. You're now looking for the reports from the first
8 admission.....

9 A. All right, we have it.

10 Q. May I see it?

11 A. February, 1963.

12 MR. MILLER: I think, Mr. Jones, pardon my inter-
13 ruption, I think you might be helped, both of
14 you, if you referred to the records themselves
15 rather to my particular copy. We may be all
16 fouled up later on because I'm not sure they're
17 in the same order or anything at all when it comes
18 to my copies.

19 Q. All right, we've got the original report here...

20 A. February of 1963....

21 Q. May I see it? Now, Doctor, could you find me the
22 radiology report of the Wetzel Clinic for the second
23 admission?

24 A. We shall try....

25 Q. Doctor, you have read the x-rays themselves that

1 were made at the Wetzel Clinic on the two admissions
2 there, and you have read the radiology reports and the
3 hospital records. Let me ask you this: do you agree
4 with the conclusions reached by the radiologists'
5 reports from those two admissions?

6 A. No.

7 Q. Will you state your own conclusions, please?

8 A. I think the conclusions I give on reading the x-rays,
9 it should be stated are based on the fact that we had
10 available films between these two taken at the Univer-
11 sity of Missouri Medical Center, so the reading of the
12 first film is then based retrospectively and I have had
13 the advantage of the film on the admission here.

14 Q. I understand.

15 A. In so doing, I think that I would not interrent
16 this as peribronchial bronchitis, which I believe was
17 the term used, and I think retrospectively, one might
18 be able to see this mass lesion which was then evident
19 on admissions films here in February of 1964. Simi-
20 larly the film taken following radiation therapy, shows
21 near to complete disappearance.

22 Q. That's the University of Missouri Medical Center
23 film?

24 A. No, the film taken at the Wetzel Clinic, the last
25 film, was following radiation therapy.

1 Q. I see, those reports called it bronchitis?

2 A. Yes, as did the earlier reports. And I did not
3 agree with either one of these.

4 Q. Did you treat Mr. Weaver personally?

5 A. In radiation therapy?

6 Q. Well, at any times? Did you ever see him person-
7 ally and treat him personally?

8 A. Yes, I did see him personally. I did not treat
9 him, depending on how you define treat. I saw him on
10 a number of occasions when he was in the hospital. I
11 did not administer any drugs, nor did I order that any
12 drugs be administered. It was on my recommendation
13 that he was referred to radiation therapy for treat-
14 ment, so perhaps you'd call this treatment.

15 Q. Did you perform the bronchoscopy?

16 A. I did not.

17 Q. Did you perform the biopsy?

18 A. I did not.

19 Q. Can you tell us how many times you saw Mr. Weaver,
20 approximately and as near as you can, when you saw him
21 on each occasion?

22 A. No, other than I saw him a number of times during
23 that period when he was in the hospital.

24 Q. The first period?

25 A. Yes, the first period. I would be just going on

1 my past habitual rounding patterns say, and I could
2 not definitely state an exact hour, or for that matter
3 if I saw him on one day or not.

4 Q But you think it was several times?

5 A Several times.

6 Q Do you recall if you saw him on the second occasion
7 of admission?

8 A I don't actually recall that.

9 Q I understand you did not perform either the
10 bronchoscopy or the biopsy nor administer or recommend
11 any treatment other than the radiation therapy?

12 A Well, I recommended the performance of the bronchos-
13 copy and the performance of the scalene node biopsy.

14 Q Aside from the recommendations and aside from
15 going by and just seeing him in making your rounds...

16 A (INTERRUPTING) And examining him.

17 Q (CONTINUING)...and examining him personally when
18 you made rounds and looking at his charts....

19 A (INTERRUPTING) X-rays.

20 Q (CONTINUING)...and x-rays, that's the extent of
21 your.....of anything you did that could be termed manage-
22 ment or treatment of this case, is that correct?

23 A Reviewed the history, examining...physical examina-
24 tion, reviewed the x-rays, recommending diagnostic and
25 therapeutic procedures, yes, that's the extent.

118A

MNAT 00002471

1 Q And you can't tell us any more definitely than you
2 have the number of times you actually went by his room
3 and saw him personally?

4 A No, I expect it was daily.

5 Q And have you ever identified...strike that, please.
6 Have you ever examined any other documents relating to
7 Mr. Weaver than the ones you have mentioned, that is
8 the records here at M.U. Medical Center, the two charts
9 and the x-rays from the Wetzel Clinic?

10 A The original of the charts from the Wetzel Clinic,
11 slides we have here in our file, I don't recall any
12 others.

13 Q You personally examined some slides?

14 A I did, yes.

15 Q Incidentally, do you make your own conclusions,
16 arrive at your own opinions as to what the slides show
17 or do you rely upon the pathologists?

18 A I look at the slides of most of our patients, but
19 I rely primarily on the pathologists.

20 Q Are you a certified pathologist?

21 A No, indeed.

22 Q Or a radiologist?

23 A No, indeed.

24 Q I take it you do have some, perhaps more than
25 passing familiarity with slides?

1 A. Yes.

2 Q. We've covered all the x-rays that you've examined

3 that related to Mr. Weaver, have we not? I don't mean

4 by putting them up on the light and having you say what

5 they show but you have not, at any time, looked at any

6 x-rays, other than those taken here which have been

7 referred to, taken here at the Medical Center and those

8 supplied to you by Mr. Miller from the Wetzel Clinic?

9 A. That's true.

10 Q. Can you tell us when you looked at the slide in

11 Weaver's case?

12 A. Yes.

13 Q. When?

14 A. This morning.

15 Q. Are they here?

16 A. In the office, now?

17 Q. Yes.

18 A. No.

19 Q. Do you know where they are?

20 A. Department of pathology, at least some slides are.

21 The slides that were made originally were not immediately

22 available, so we recut some slides from his tissue so

23 I could look at them.

24 Q. What do you mean, recut some slides from his

25 tissue?

1 A Well, whenever anyone has an operation, the slides
2 are made of the tissue, to identify both the organ and
3 the disease under microscopic examination. The remaind-
4 er of the tissue is kept and marked by the name and
5 number of the patient for future reference.

6 Q Could you get those for me?

7 A I expect I could.

8 Q Would you please do that? Off the record, since
9 slides have been introduced in evidence, I want to make
10 sure that we have....

11 MR. MILLER: We don't want any off the record.

12 MR. JAMES: Very well. We'll continue and come
13 back later.

14 Q Doctor, you have examined some slides that were
15 made just in the last day or two from tissue specimens
16 which resulted from the biopsy and the bronchoscopy you
17 referred to previously, is that correct?

18 A Yes.

19 Q And when you examined those, you

20 A (INTERRUPTING) Wait. I should correct that. I
21 looked at the slides only of the scalene node, not from
22 the bronchoscopy.

23 Q Was another slide made from the bronchoscopy
24 tissue?

25 A No, not to my knowledge.

1
2 Q. And from looking at that, did you agree with the
3 original pathologists report upon that specimen of
4 tissue?

5 A. Again, I should emphasise that I am not a patholo-
6 gist.

7 Q. I understand.

8 A. But it certainly seems that, to my eye, the
9 microscopic appearance was entirely compatible with
10 the printed report.

11 Q. Now aside from these hospital records and x-rays
12 that you have examined, have you received any other,
13 either written or oral information regarding Mr. Weaver?

14 A. I think I talked over with Mr. Miller who has
15 given me some information.

16 Q. And could you tell us what information he's given
17 you, first, whether it was just oral information?

18 A. Yes, verbal.

19 Q. He gave you no written documents or records?

20 A. Other than the Wetzel records?

21 Q. Other than the Wetzel records, very well, can you
22 tell me the verbal information he gave you?

23 A. As I recall, I think he told me or reminded me of
24 the fact that Mr. Weaver had been in a car accident, I
25 think he told me this before we had the Wetzel records.
Also he had been exposed in the course of his employ-

ment in various industrial activities.

Q. Could you be more specific about that?

A. Well, the fact is that most of these things were in that hypothetical question that seemed to cover it.

Q. Do you recall anything in addition to those included in the hypothetical question?

A. I can't recall any.

Q. Do you recall any that were in the question that were not included in the verbal information Mr. Miller gave you when he talked to you about the case?

A. No, again, this was just a verbal conversation some time ago and I would hesitate to rely on that correctly.

Q. Dr. Mackenzie, have you ever prepared any written report on this case, written your views, opinions, or conclusions?

A. Other than in the hospital records?

Q. Yes?

A. No.

Q. With reference to hospital records, have you ever prepared any written reports that are contained therein?

A. Not in the record that we see here. There was a problem of the hospitalization summary from his admission here in April of 1964, in that, for awhile, apparently the hospitalization summary, dictated by Dr. Simani was not available. He was a resident from

1 a foreign country, and is no longer available, so to
2 keep our records up, I did apparently dictate a
3 hospitalization summary, redictate it, and then apparent-
4 ly, the original dictated by Dr. Simani appeared, which
5 I then signed as approved. I'd completely forgotten
6 about redictating it except that Mr. Miller had in his
7 file somewhere, this form that I dictated for the record,
8 so I did prepare that.

9 Q. The one that appears in the chart that has been
10 introduced as Plaintiff's Deposition Exhibit 1 and has
11 been marked in pencil, page 59, is the one Dr. Simani ..

12 A. I assume so, that he dictated it, according to
13 our records, he did. You see, it's not signed, and
14 this apparently was the trouble. He left after dic-
15 tating it,

16 Q. But before it was signed, I see. But is the one
17 that you dictated prior to finding the one he had
18 dictated included in Plaintiff's Exhibit 1?.

19 A. I don't see it here.

20 Q. Do you have that, George?

21 A. You have a copy of it somewhere?

22 MR. MILLER: What the Doctor is referring to,
23 Mr. James, is one of the pages in Wetzel's report,
24 apparently a copy of Dr. Mackenzie's dictation
25 in his own report showed up in Wetzel's report.

1 A. There's another one that Mr. Miller has a copy of.
2 We went over these things.

3 Q. Now, Doctor, as I understand you, the summary
4 sheet in the University of Missouri Center's chart, that
5 is Plaintiff's Deposition Exhibit 1, which was dic-
6 tated on the 5th of May, 1964 is one that was prepared
7 by Dr. Simani who was then resident physician, but who
8 left thereafter for some other county, and is signed...
9 approved by you?

10 A. Yes.

11 Q. Over your signature?

12 A. Right.

13 Q. But prior to the time you signed that summary just
14 referred to, you had prepared one yourself, thinking
15 erroneously that Dr.....you dictated one yourself,
16 thinking that Dr. Simani had not yet dictated one
17 before he left, is that right?

18 A. No, it was afterwards. You see, this was dictated
19 in November of 1964. This was, I think quite obviously,
20 picked up in a medical records check, telling us that
21 their medical records were incomplete, and I suspect,
22 but I don't know for sure, that this was in an answer
23 to a request from them that we do something to complete
24 the records.

25 Q. But you did prepare a summary yourself?

1 A. Yes.

2 Q. Then on November 10th, 1964, based upon the records
3 in the chart.....

4 A. Yes.

5 Q. And then that was apparently removed from the
6 chart because they found the one that had been prepared
7 by Dr. Simani?

8 A. I assume this is so, but I have no way of knowing.
9 (REPORTER MARKED DEFENDANT'S DEPOSITION EXHIBIT MAY 28,
10 1969, NUMBER 1)

11 MR. MILLER: And you can do this if you
12 want to, Mr. James, show that by agreement
13 it or a copy of it is now inserted and made
14 a part of the University Hospital Record.

15 MR. JAMES: Don't you think that this record
16 here that I'm making will satisfy our
17 purposes?

18 MR. MILLER: I suspect so. It's perfectly
19 agreeable with me.

20 Q. Doctor Mackenzie, I'll hand you what the reporter
21 has marked for identification as Defendant's Deposition
22 Exhibit No. 1 and ask you if this is a summary that
23 was prepared by you in November of 1964 but then was
24 replaced in the official chart by the summary that was
25 made by Dr. Simani on May 5th, 1964 and approved by

you?

A. Certainly this was dictated by me. Whether it was actually in the chart or not, I have no way of knowing except that it was contained when the chart was duplicated.

Q. And when you dictated that summary, you of course, were setting up a summary of your findings and conclusions based upon the hospitalization of from February 7th, 1964 to February.....

A. No, this was the April admission.

Q. Oh, this was the April admission?

A. The April admission.

Q. Yes, from April 22nd, 1964 to April 25th, 1964?

A. Yes.

Q. And that summary was based upon the hospital chart relating to that admission?

A. Yes, because you see, we know that this was dictated some five months later.

MR. JAMES: We offer into evidence Defendant's Deposition Exhibit 1.

MR. MILLER: For the purpose of the record, let it show that there are certain markings and underlinings on this record on this exhibit that were made by Mr. Miller because the exhibit itself has been the property of Mr. Miller for some time.

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I have no objection for the admission of the exhibit and I would like to tell Mr. James that with his permission, I will keep this exhibit and will give him another one, replace it with another just like it but without the markings. If he prefers he can keep this one.

Q. Doctor, I'm going to....put the number 18 in pencil in the upper right hand corner of the summary sheet, from Plaintiff's Exhibit 1 to designate the summary pertaining to the first hospitalization of Mr. Weaver, is that correct?

A. Yes.

Q. I'm putting the 18 on it whether that's the correct number or not. Now, to respond to Mr. Miller... off the record....

Q. Doctor, you're not a chemist, are you?

A. No.

Q. I take it you've had some courses in that?

A. Yes, sir.

Q. Are you an epidemiologist?

A. No.

Q. Or a statistician?

A. No.

Q. In the event you have some question as to the respect of the type of cancer in a patient of yours,

1146

1 do you refer that to a pathologist?

2 A Well, I'm interested in his opinion of any tissue
3 that we
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MNAT 00002482

have but I am interested in the physical examination and the findings at operations if any. Occasionally it's necessary to put all these together to make sure.

Q. But you invariably will get a pathologists opinion if there's some tissue available?

A. Yes.

Q. Is classification of cancer by type a function of the surgeon or the pathologist?

A. What do you mean by type?

Q. Well, are there different types of cancer?

A. Yes, one of the different ways one can classify is by histologic types, perhaps this is what you mean.

Q. All right, what are histologic types?

A. These are types of appearance under the microscope of cancer and this is the most common way of typing it. But there are also other ways of classifying the type of cancer depending on the clinical situation.

Q. Well, as to histologic types, classifying them as to type under a microscope, do you get the opinions of pathologists.....

A. Yes, indeed.

Q. With regard to that? Do you do that?

A. I take it invariably if we can get the tissue, yes. I can't think of any exceptions.

1 Q. And is that theone of the jobs in the hospit-
2 al, to classify tissue as to histologic type and make
3 and report?

4 A. Yes.

5 Q. Mr. Miller asked you the number of lung cancer
6 patients you've had since you've been here at the Uni-
7 versity of Missouri Medical Center, I believe and you
8 said it was about three hundred and fifty in the hos-
9 pital?

10 A. In the hospital in the last six years. I've been
11 here almost seven years. But our records were easily
12 available for the last six years.

13 Q. Did you refer to those records?

14 A. Yes.

15 Q. And make an actual count?

16 A. Yes.

17 Q. Was it actually 350?

18 A. No, it was in excess of that.

19 Q. Can you tell me how much?

20 A. No, because we stopped when we.....

21 Q. Less than 400?

22 A. Yes, I wouldit was between 350 and 400 admitted
23 to our service in the last six years.

24 Q. Now, did you treat those personally and I take it by
25 that, it would include the same type of management that

1 you....

2 A Of course, some of these I did....

3 Q Did with regard to the Weaver case?

4 A Some of these I actually did the procedures on,
5 the bronchoscopy, the scalene node biopsy and the
6 thoracotomy .

7 Q Do you have any estimate you could give us as to
8 the number of thoracotomies you've performed on lung
9 cancer patients in the last six years?

10 A It would be a bit of a guess, but perhaps about 30
11 percent of them.

12 Q Around a hundred?

13 A Again, I do not have accurate figures.

14 Q What about bronchoscopies; how many would you esti-
15 mate you had performed among those 350 plus patients?

16 A Again, I did not search for those figures, it would
17 be just purely an estimate. Perhaps about the same
18 number because we do bronchoscopies on a number of
19 those that don't....

20 Q What about biopsys;(sic) would you say the same?

21 A About that I would say.

22 Q You mentioned some other sorts of lung cancer
23 patients you've had here. I think some you saw on con-
24 sultation?

25 A Yes.

Q Do you know what those would total?

1148

A No.

Q In the last six years?

A I do not have those figures.

Q Is there another kind of cancer patient?

A There would have some that would have been seen as outpatients. They were obviously not candidates for an operation so they may not have been admitted to the hospital. There would be few of those.

Q As to the 350 plus, can you give us any estimate as to the number of those who were men and how many were women?

A I cannot.

Q Have you any record as to the number of cases that involved persons who smoke as opposed to non-smokers?

A To give an estimate, in that, I think almost without fail, we do take a smoking history with all of our patients.

Q Well, I'm not asking for an estimate. Do you have any count?

A No, we do not have a count.

Q Do you have any record or have you made any count in the last few days of the types of cancer included in those 350 plus?

A No.

Q Would you say it would include all types and there

MNAT 00002486

again, maybe I'd better say histologic types?

A. I would think so, yes.

Q. Do you have any records as to the numbers.... the number of those that would be primary as opposed to secondary?

A. We have not done this, just a survey of our material, this is available.

Q. Is it in the record?

A. Yes, individually it would be and we could get each record out if it were important enough but I have not done this.

Q. Is that the only way you could get that count, or have some other statistical organization or something... someone here at the hospital make an actual count as to the number of those lung cancer patients which were primary and the number which were secondary?

A. There is a tumor registry here.

Q. Would that show that?

A. It might very well.

Q. Do you know whether or not it classifies them as to primary or secondary?

A. To my knowledge, it does but I'm not sure.

Q. It classifies them as to histologic type, I take it?

A. Yes.

1 Q And certainly it would classify them as to men or
2 women?

3 A Yes.

4 Q It would classify them as to age?

5 A Yes.

6 Q And as to residence?

7 A Yes, I think so.

8 Q Are most of your patients here Missouri residents
9 or do they come from far and wide?

10 A Most are from Missouri.

11 Q That, I believe covers the cases you've had in this
12 department of which you've been a member here in Missouri.

13 Can you tell me about how many lung cancer patients you
14 have treated personally prior to coming to Missouri and
15 since you're, I suppose, determination of your residency
16 in general surgery?

17 A No, it would be only a guess.

18 Q Could you give me an educated estimate?

19 A I suppose a hundred.

20 Q Is there any way you can find out exactly; any
21 records other than going, I suppose, back to Michigan
22 and taking out the charts?

23 A These are to ten years ago and I'm not so sure I've
24 still kept my own personal operative records of those.

25 Q Is there any organization which gathers statistics?

1 from which you could get that?

2 A Only the cancer registry back there.

3 C They had a tumor registry at the Michigan University
4 Medical School?

5 A Yes.

6 C Would they be classified according to the treating
7 doctor?

8 A I'm not sure.

9 C Do you think they would be classified as to the
10 histologic type of cancer?

11 A Yes.

12 C Male or female, age?

13 A This is the usual thing in cancer registries, and
14 I assume so.

15 C Who operates the cancer registry here; the name of
16 the person?

17 A Dr. DeWeese I think is chairman of the committee in
18 charge of the ***tumor registry, Dr. Carl Rinker is
19 actually in charge.

20 C Is this tumor registry something maintained by M.U.
21 Medical Center?

22 A Yes.

23 C Or is it maintained by the State Health Department
24 or the Federal Government?

25 A It's maintained by the Medical Center.

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MNAT 00002489

1 Q Do you know whether they report to the State Department of Health or to any Federal Agencies?

2
3 A I'm quite sure they don't report to Federal Agencies.
4 I think there's a beginning cooperative tumor registry
5 within the State.

6 Q I take it, Doctor, those hundred approximately,
7 that you saw during your residency in thoracic surgery
8 and thereafter were before coming to Missouri....

9 Q You could not divide those as to exact type?

10 A No.

11 Q Smokers or non-smokers, or age?

12 A No.

13 Q Are you able to tell us how many of these 350 plus
14 patients you've had here at M.U. Medical Center, were
15 spindle cell type?

16 A No.

17 Q You would have no estimate?

18 A No, we've not made a study.

19 Q Do you know whether the tumor registry would classify
20 them sufficiently that that could be determined?

21 A I don't know.

22 Q Can you tell me how many cases you've treated personally among those 350 plus were spindle cell cases?

23
24 A No, because I don't know personally how many that
25 I've actually.....

1138

MNAT 00002490

1 Q I see. Then your answer would be the same as to
2 how many of those were females?

3 A Yes.

4 Q Now this 350 plus here at Missouri Med Center in-
5 cludes cases which you've treated personally and cases
6 which you've managed or your associates have treated?

7 A Yes, or residents have treated under my supervision.

8 Q Are you able to tell me how many cases you have
9 either treated or ...either treated or seen in consul-
10 tation which were undifferentiated spindle cell?

11 A No, again we do not have histologic classification.

12 Q Have you ever checked your records to determine the
13 various classifications as to type, sex, age, smoker,
14 non-smoker, and so on in cases you have treated or con-
15 sulted with?

16 A No.

17 Q Doctor, do you have any reason to believe there is
18 any difference in the amount of smoking in Michigan as
19 compared to Missouri?

20 A No.

21 Q A difference either way?

22 A No.

23 Q Just have no knowledge?

24 A No. knowledge.

25 Q Of the lung cancers you've seen and let me confine

MNAT 00002491

1 this to the ones here at N.Y. Med Center in the last
2 six years, of those do you have any basis for knowing
3 how many were primary bronchogenic carcinomas?

4 A. Not for....no, as again we have not done any statis-
5 tical survey of our lung cancer patients.

6 Q. You say not from knowing, is there some other way?

7 A. Well, you can have a general impression and my
8 impression would be that our experience is that we have
9 at least 20 or 30 primary lesions of the lungs to each
10 metastatic lesions that we see.

11 Q. Doctor, would you please define cancer for me?

12 A. Cancer is an abnormal growth taking place within a
13 biologic system which has propensities for uncontrolled
14 growth and detachment and setting up satellites and
15 metastases.

16 Q. Can you define primary and secondary cancer; could
17 you distinguish them?

18 A. Primary cancer of any organ is a cancer that orig-
19 inates there. Secondary cancer is one which originates
20 elsewhere and then spreads or metastasizes to this organ
21 in question.

22 Q. That brings us to the term metastasis.

23 A. Yes.

24 Q. What is your definition of this?

25 A. Metastasis is a breaking off of a portion of the can-

1 cor which then spreads either through the lymphatic
2 system or through the vascular system to then light
3 elsewhere and set up secondary growth.

4 Q Is it correct to say that where you have secondary,
5 lung cancer, that means that the cancer has originated
6 in some other part of the body and has moved and metas-
7 tased to the secondary site?

8 A I think you can get involved in semantics a little
9 bit, but generally speaking, secondary cancer, I think,
10 would mean this, yes.

11 Q What is it that metastasizes it, is it some of the
12 cells?

13 A Some of the cells.

14 Q Could it be one or more?

15 A Probably more than one. I think there's a minimum
16 number or group of cells necessary.

17 Q Could you define etiology for us?

18 A Etiology is the basic cause of any disease, whether
19 it be cancer or infectious diseases.

20 Q Doctor, you would not diagnose lung cancer, would
21 you, on the sole basis of a smoking history?

22 A No, indeed.

23 Q As a matter of fact, it is true, is it not, Doctor,
24 the vast majority of smokers never get lung cancer?

25 A That's true.

1 Q And it is also true, is it not, Doctor, that non-
2 smokers do get lung cancer?

3 A I think you'd have to equivocate there. I think
4 it's extremely rare for non-smokers to get undifferenti-
5 ated carcinoma (sic). So rare that we always comment
6 about it, if we should see such a case.

7 Q Although it's rare, it is true, is it not, Doctor,
8 that non-smokers do get lung cancer?

9 A Yes, indeed.

10 Q It is also true, isn't it, Doctor, that cancer cells
11 seen under a microscope do not look any different in a
12 smoker.....from a smoker than they do from a non-smoker?

13 A That's true.

14 Q So, obviously then, one cannot tell simply by look-
15 ing at the cancer cells under the microscope whether they
16 came from a person who smoked or a person who had never
17 smoked?

18 A That's true.

19 Q Doctor, do you know whether there was an autopsy
20 report of this case?

21 A To my knowledge, there was not.

22 Q There was none that you saw?

23 A Yes.

24 Q And in the examination of the records that you
25 have related here, you have seen none?

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A. No.

Q. Doctor, returning to the summary sheet relating to the first stay of Mr. Weaver in the hospital here at the Medical Center, which was the stay from February 7th, 1964 to February 21st, 1964, I'll ask you if that summary sheet does not state that the patient had a left hilar mass of unknown origin?

A. Yes, the report of the x-ray report says that, yes.

Q. Now this summary was designed to summarize what was found, what was actually found, was it not?

A. Yes.

Q. And it was prepared on February 25th, 1964 which would have been 4 days after Mr. Weaver left the hospital, is that correct?

A. By the record, it is correct.

Q. Would you please define sputum cytology?

A. Sputum cytology is a way in which one can attempt to make a diagnosis of bronchogenic carcinoma by looking at the sputum and the cells within the sputum and if they're coughed up from the inner portions of the lung and if they actually appear abnormal, one can make a diagnosis of carcinoma of the lung by looking at these tests.

Q. Doctor, I believe I quoted from the summary inaccurately. The summary states that the x-ray showed a left

1. hilar mass of unknown etiology did it not?
2. A. Probably carcinoma.
3. Q. It adds probably carcinoma?
4. A. Yes.
5. Q. And I think I said unknown origin?
6. A. Yes.
7. Q. The record says unknown etiology.
8. A. Yes.
9. Q. So that would be, mean an unknown cause?
10. A. Again that's the transcription of the report of the
11. radiologist. I assume the report of the radiology
12. department.
13. Q. Could you find for me the report of the radiology
14. department?
15. A. Yes, we have it here.
16. Q. Doctor, the radiology report you're referring to,
17. which the summary you say was a transcription of it?
18. A. I said I assumed it was.
19. Q. You assumed it was a transcription of was the one
20. datedthe one relating to chest x-rays made on Feb-
21. ruary 2nd, 1964 and there's no date showing when the
22. report was made?
23. A. No, I think I would say...I'm not sure that date is
24. even correct, to tell you the truth.
25. Q. The date of the x-ray?

1 A The date of the report of the x-ray, because you
2 remember we had a film of the 7th of February, and that...
3 according to that says the 2nd, does it not?

4 Q Yes, he wasn't even here.

5 A He wasn't here so I assume that was a typographi-
6 cal error.

7 Q Is there any way by identification number or other
8 way to tell which x-rays this report is talking about
9 and states chest, February 2nd, 1964?

10 A My only supposition would be that there are no
11 other chest films about that time and there is not a
12 report as I recall, on the one of the 7th. This in
13 actuality represents a typographical error, and this is
14 by the fact again, that he was not here at that time and
15 it's pretty strong circumstantial evidence.

16 Q And I don't mean to quarrel with you, Dr. Mackenzie,
17 but when you said you assumed that the summary statement
18 about a hilar mass of unknown etiology was simply a
19 transcription of the radiologists report, you assumed
20 incorrectly, did you not?

21 A Yes.

22 Q Now that you've looked at the report?

23 A It is not a verbatim transcript and I should say
24 that oftentimes in these hospitalization summaries, they
25 are not verbatim transcriptions.

1 Q. As a matter of fact, the purpose of the summary,
2 Doctor, is it not, the purpose of the summary is to
3 summarize this case on the basis of all the records and
4 history and examinations we have?

5 A. Correct.

6 Q. And not just to repeat all of the record verbatim?

7 A. Yes.

8 Q. Now the radiology report we've referred to as
9 Plaintiff's Exhibit 1 relating to the chest x-ray, noted
10 as having been made February 2nd, 1964 which was probably
11 a typographical error and means the x-ray made on Feb-
12 ruary 7, 1964, states after the word data: probable
13 carcinoma(sic) of the left lung and multiple bone changes?

14 A. Yes, I see that.

15 Q. I want to ask you to follow me and see if I'm read-
16 ing this correctly. And then it goes on down and says:
17 there is a left hilar mass appearing just inferior to
18 the upper lateral border of the aortic knob. This mass
19 is posterior to the pulmonary vessels and left trachea
20 but lies just superior to the left main stem(sic)
21 bronchus. The exact etiology of this mass is not appar-
22 ent from these films and overpenetrated films of the
23 chest and chest fluoroscopy was recommended.

24 A. Yes.

25 Q. And then "Impression: left hilar mass, etiology

undetermined. Possible carcinoma(sic.) Can you tell us from your review of these records whether there was any overpenetrated films of the chest and chest fluoroscopy?

A. There was a chest fluoroscopy done sometimes. I don't know if it was in this hospitalization or later. I recall seeing the report of a chest fluoroscopy in this case.

Q. I see what seems to be an order.

A. I think you'll see it there in....

Q. That was made on February 14th, 1964 and signed by Dr. Stephens, do you know who he was?

A. I do.

Q. Is he a radiologist?

A. He is a radiologist.

Q. Is he a resident or a....

A. I think he was a resident at that time, yes. But it's countersigned or has a....

Q. What is the S.W.?

A. Either the S.W. is the one who did the typing and this is the staff man or vice versa. I'm not sure.

Q. And all that says is that on February 14th, 1964, the fluoroscopic examination showed that the left diaphragm was noted to move well without evidence of paralysis.

A. Correct.

1163

MNAT 00002499

1 Q Were there sputum cytology tests made.
2 A Yes, there were.
3 Q Could you find these, please?
4 A Here.
5 Q Would you check those and tell us whether or not
6 these reports showed that there were no atypical or
7 abnormal cells seen?
8 A That's what the report says.
9 Q What is...strike that. Would you tell us how you go
10 about making sputum cytology?
11 A Well, of course, this isn't one of the things that
12 I do. This is done in the department of pathology. The
13 sputum is collected and sent down, and the pathologist,
14 after the sputum which contains cells from the lining of
15 the lungs is prepared properly, looks at the cells. I
16 do not do this. What we do, is we arrange to send fresh
17 specimens down to be looked by the people in pathology.
18 Q Are these specimens material that is coughed up by
19 the patient?
20 A Coughed up and sputum, yes.
21 Q Are these examined under a microscope?
22 A They are examined under a microscope.
23 Q Do you examine them yourself?
24 A Rarely do I examine cytologic specimens.
25 Q You rely upon the pathologists...

1 A Yes.

2 C ...conclusions?

3 A Yes, from his inspection.

4 C What is the purpose of that?

5 A Again, it's an attempt to obtain the diagnosis of
6 a cytologic diagnosis of diseases in the lung and
7 usually cancer.

8 C And one purpose is to see if you can find some cancer
9 cells in the sputum?

10 A Yes.

11 C How many tests were there?

12 A One was...

13 C No cancer cells were found?

14 A That's true...in the cytologic examination.

15 C How many tests were made?

16 A There were five, four of which apparently were
17 accurate or adequate, one was inadequate.

18 C The record shows a bronchoscopy was performed and
19 you've mentioned that. Would you describe or would
20 you define bronchoscopy?

21 A Bronchoscopy is the insertion of a lighted tube
22 into the major air passages into the trachea and the
23 bronchi through which one can see the lining of these
24 air passages.

25 C Would you check the bronchoscopy report and tell us

1 how many there are?
2 Q How many times bronchoscopy was done?
3 A Yes?
4 A I think just once, is the only place on the record.
5 Q I think that's correct. Did you find that report,
6 Doctor?
7 A Yes.
8 Q Do you have it?
9 A Yes.
10 Q I'll ask you if that isn't correct that the bron-
11 choscopy report showed that everything was normal except
12 that the carina was, and I quote, "slightly thick," end
13 quote?
14 A Yes.
15 Q What is the carina, Doctor?
16 A The carina is the spur at the division of the
17 trachea, the main air passage, as it divides into the
18 right and left bronchi.
19 Q It's not a part of the lung or is it?
20 A No, I would say not, strictly speaking.
21 Q Was the carina biopsied?
22 A Yes.
23 Q I think you said it was.
24 A Yes, it was.
25 Q Could you tell us what that means?

1 A It means a piece of tissue was taken and treated and
2 stained and looked at under the microscope.

3 Q How was it taken?

4 A With a forcep which was a sharp edge on it and
5 it's cut. So it's cut sharply so we do not damage the
6 tissue as it's taken to be submitted to microscopic
7 examination.

8 Q Was there a report of the biopsy?
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1 A Yes.

2 Q And is it true that there was no cancer found in
3 the carina and none ever developed?

4 A That's true.

5 Q I take it you agree, Doctor, that one cannot tell
6 by looking at a man's lung whether the man is a
7 smoker or not?

8 A Yes, it's generally true that one cannot be sure.

9 Q Was there another biopsy performed?

10 A Yes.

11 Q Where was that tissue taken?

12 A This was taken from the left side of the neck.

13 Q What was the name of the kind of tissue?

14 A This was a lymph node biopsy, so called scalene
15 biopsy.

16 Q Does this word scalene have some significance
17 aside from lymph node?

18 A Well, there are muscles there that are called the
19 scalene muscles. It has significance because it is
20 often the first place that a malignant disease from
21 the lung lights when it metastasizes from the lung.

22 Q Does it also have significance in that it tells
23 you where that lymph node was?

24 A The area?

25 Q Yes?

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1 A Yes.

2 Q And describe that area, by pointing to your body
3 or my body?

4 A Well, the scalene triangle is a triangle to the
5 interior portion of the anterior part of the neck.

6 It's deep structure, the anterior scalene muscle, is
7 what gives it it's name. There are significant anatomic-
8 cal structures there, the interior jugular vein medial,
9 subclavian vein below it and omohyoid muscles laterally.

10 Q For my information, can you point, as nearly as
11 you can?

12 A Yes, it's in the supra-clavicular region, above
13 the clavical, closer to the mid line of where you're
14 pointing.....no, closer to the front....

15 Q On the left side?

16 A Well, there's the left one and the right.

17 Q I mean, this particular one on the left?

18 A Yes.

19 Q I believe you said something about this being a
20 lymph node to which lung cancer can or often metastas-
21 izes. It is true that cancer cells can metastasize
22 to this lymph node from other primary sites, is it not?

23 A Yes, it's true.

24 Q This scalene node from which the biopsy was done
25 was not a part of the lung?

- 1 A No, it was not.
- 2 Q It's outside the lung?
- 3 A Outside.
- 4 Q And these questions might sound facetious to you
- 5 but actually these are to help me and Mr. Miller and the
- 6 Court and jury. Can you tell me about how far, in
- 7 inches, if you will, or fractions of an inch this would
- 8 be from the hilar mass that you mentioned?
- 9 A Be close, perhaps two or three inches.
- 10 Q From the hilar mass?
- 11 A Yes, it would be within three inches.
- 12 Q And how far from the nearest part of the lung
- 13 itself?
- 14 A Very close.....less than an inch.
- 15 Q Did you find a report of the scalene node biopsy?
- 16 A I have it.
- 17 Q Now that showed undifferentiated spindle cell cancer,
- 18 did it not?
- 19 A Yes. and that's not the verbatim report but in
- 20 essence, that's what this was.
- 21 Q It means the same thing?
- 22 A Yes.
- 23 Q And this finding was made on February 13th, 1964,
- 24 was it not?
- 25 A That's the date on the report of the examination.

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1 Q Could this undifferentiated spindle cell cancer
2 have originated in that node?

3 A Highly unlikely.

4 Q I understand, but Doctor, my question was, could
5 it possibly have originated in that node?

6 A Yes.

7 Q And if it had originated in that node it would be,
8 what we referred to a moment ago as primary cancer?

9 A Yes.

10 Q And if it were primary cancer in that node, that
11 would mean that it had not come from the lung?

12 A Yes.

13 Q Doctor, the pathology.....the pathological report
14 in this case and the surgery did not establish where
15 this undifferentiated spindle cell cancer came from,
16 that's correct, isn't it?

17 A Repeat the question?

18 MR. JAMES: Would you please read that back?

19 MR. REPORTER: "Now, Doctor, the pathology,
20 that was the pathological report in this
21 case and the surgery did not establish where
22 this undifferentiated spindle cell cancer
23 came from, that's correct, isn't it?"

24 A Again, here is a little bit on dissemination. You're
25 talking about the operation itself, per se, just the

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1 operation, I would agree, but if by surgery you mean,
2 as most of do, the taking care of patients by surgeons
3 in a large sense, I would disagree.

4 Q I'm talking about the surgery that was performed....

5 A (INTERRUPTING) The operation that was performed?

6 Q (CONTINUING)... for the purpose of getting patho-
7 logical opinions as to what the tissue was and those
8 pathological opinions.....

9 A (INTERRUPTING) For so did not establish.....

10 Q (CONTINUING)...examinations and reports by the
11 pathologists did not establish where this undifferenti-
12 ated spindle cell cancer originated. That's correct,
13 is it not?

14 A Yes, except that report does state by the patholo-
15 gist even, that the most likely origin was in the
16 lung.

17 Q But your answer to that question is yes?

18 A Yes, that's right.

19 Q How the x-ray showed only a hilar mass of unknown
20 etiology, did it not?

21 A Yes, that's right.

22 Q In fairness, they added probably.....

23 A Carcinoma.

24 Q Carcinoma, probably so. So the x-ray did not
25 establish where any cancer came from?

1 A Not per se.

2 Q In fact, the x-ray does not even show whether this
3 hilar mass was a cancer?

4 A That's true.

5 Q Now the record indicates, Doctor, that this
6 undifferentiated spindle cell cancer may have been a
7 sarcoma, isn't that correct?

8 A I don't believe the record indicates that.

9 Q I think there's some.....some statement that.....
10 what I had reference to, Doctor, is this sheet of the
11 record, headed University of Missouri Medical Center,
12 Surgery. Is that a continuance of another record?

13 A Yes.

14 Q So we won't have to count this. I was referring
15 to that on the back that says "scalene node, BX", is
16 that biopsy?

17 A Biopsy.

18 Q "Spindle cell neoplasm, probably carcinoma as
19 opposed to sarcoma" Would that indicate that this
20 reporter thought it was probably carcinoma but might
21 possibly be sarcoma?

22 A Since you pointed out.....

23 Q First, can you answer my question, Doctor, then
24 you're entitled to make any explanation.....

25 MR. MILLER: If the Court please, the

1 Attorney is calling for the doctor's con-
2 clusion or his opinion as to the semantics
3 used and I think the doctor cannot answer
4 yes or no and he must explain what he thinks
5 rather than answering yes or no.

6 Q Well, Doctor, did this mean to you that the
7 reporter or the doctor making this statement thought
8 that this undifferentiated spindle cell neoplasm was
9 probably carcinoma but might possibly have been sarcoma?

10 A It's hard for me to tell what he was considering.
11 Again I'll have to say this is an entry by a medical
12 student, not a physician and it's not countersigned by
13 a physician so I couldn't put too much credence in it.

14 Q Very well, but aside from how much credence you
15 would put in it, in fact, let's assume this was made
16 by the finest doctor at the medical center, would this
17 not mean that this doctor thought it was probably
18 carcinoma but might possibly be sarcoma?

19 A Again, trying to interpret what someone else said,
20 I think this would be a reasonable interpretation, but
21 I wouldn't.....

22 Q And Doctor, wouldn't that be borne out, that
23 interpretation, by the fact that the doctor used the
24 word "neoplasm" which would include both carcinoma
25 and sarcoma?

1 A Neoplasm was probably used there because, was
2 that not used in the report?

3 Q I don't recall.

4 A Neoplasm includes both carcinoma and sarcoma, its
5 ture, but I doubt very much that a medical student was
6 thinking along those lines.

7 Q But suppose he were the finest surgeon in the
8 world, wouldn't it be fair to say that he thought, that
9 he didn't intend to say this was anything more than a
10 neoplasm except to say that it was probably carcinoma
11 but it might be sarcoma?

12 A Yes, I think that would be a reasonable interpre-
13 tation of that entry.

14 Q Now, Doctor, if this were sarcoma, it did not come
15 from the lung, did it?

16 A Well, that's not quite a true statement. Sarcomas
17 may originate in the lung.

18 Q Is that correct?

19 A Yes, it is correct. Rare, but definite.

20 Q And do you have some basis upon which you make
21 that statement?

22 A Just from reading.

23 Q Reading test material, literature, can you give
24 me any citations for same?

25 A Not offhand but I'm sure I could.

1 Q Have you, yourself, performed autopsys where you
2 saw sarcoma in the lung?

3 A No, I never have.

4 Q What part of the lung would sarcoma originate in?

5 A Obviously it would have to originate in the lung,
6 somewhere other than where there is epithelial lining,
7 but there is fibrous tissue within the lung and this
8 gives rise to neoplasms that take the form of a sarcoma.

9 Q Can you give us the name of any medical scientist
10 who has written reports of finding sarcoma that originate
11 in the lung?

12 A No, I can't offhand but I know this has been reported.

13 Q Of course when you speak of the causal relationship
14 between smoking and lung cancer, you're confining that
15 to primary lung cancer only?

16 A Yes.

17 Q You are not saying that cancer that originates in
18 some other organ and metastasizes to the lung is
19 caused by smoking, you're not saying that?

20 A No, I'm not saying that.

21 Q Is it not correct, Doctor, that the lung is one of
22 the organs of the body that is particularly susceptible
23 to the metastatic or secondary lung cancer?

24 A Yes.

25 Q And that's true, at least in part, because these

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1 cells can travel through the bloodstream and all blood
2 goes through the lung at one time or another, is that
3 correct?

4 A Almost, not completely.

5 Q Not quite right?

6 A For instance, the cancer from the abdominal cavity
7 can---may get filtered out in the liver.

8 Q You don't claim to know the cause of cancer that
9 originates in some part of the body other than the lung
10 and which reaches the lung through metastasizes or
11 through the blood supply?

12 A Well, I know the cause of some cancers that may do
13 this, yes.

14 Q What cancers?

15 A One, specifically, I think, are people who have an
16 ulceration on the leg over a long period of years,
17 which doesn't heal, is chronically irritated, may
18 develop cancer. And some of these stay localized, but
19 some of them do metastasize.

20 Q Are there others?

21 A This is one that comes to mind offhand.

22 Q Then irritation over a long period of time, in
23 your opinion, can cause cancer in certain areas?

24 A I think this is true.

25 Q How about trauma, repeated trauma. That's the same

1 as repeated irritation, isn't it, continued irritation
2 over a long period of time?

3 A Depending on the form of the trauma, what kind
4 it was.

5 Q Now when you speak of the relationship between
6 smoking and primary lung cancer, you don't mean to
7 include all types, all histologic types of lung cancer,
8 do you?

9 A I mean to emphasize primarily, the undifferentiated
10 and the squamous cell and I also think there is begin-
11 ing evidence that even the adenocarcinoma which
12 previously has been thought to have no relation to
13 smoking may indeed have. I'm talking primarily about
14 the undifferentiated carcinoma and the squamous cell.

15 Q And as to that, you are beginning to think it may
16 have?

17 A Referring to adenocarcinoma.

18 Q Yes, what about alveolar?

19 A Again one may look on this as a type of adenocarcinoma
20 carcinoma, some type of it, so I.....

21 Q What about spindle cell?

22 A Well, spindle cell, of course, is used by many
23 people as....in the group of the oat cell or undiffer-
24 entiated carcinoma. There are so many different
25 classifications, I think this is definitely where it
fits, I think it definitely was

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12 IS

Q Could you read me that last answer?

MR. REPORTER: Yes, you said "What about spindle cell?" He said, "Well, spindle cell of course, is used by many people in the group of the oat cell or undifferentiated carcinoma. There are so many different classifications, I think this is definitely where this fits. I think it definitely was."

Q Doctor Mackenzie, you're anxious to get away and I think we can probably shorten this and finish very soon.

If spindle cell cancer is just undifferentiated, why do the pathologists say undifferentiated spindle cell?

A This is a more philologic description, a description of how it appears. It looks, in certain planes under the microscope that there are spindles, elongated cells. This is a type of undifferentiated carcinoma.

Q Doctor, you've agreed that non-smokers do get primary cancer of the lung?

A Yes.

Q What would you say is the cause of lung cancer in a non-smoker, since smoking is ruled out?

A Because it's so infrequent, I don't have much experience with it, nor have I read enough about the reported cases to give an opinion about it. There are certain groups of people we all know, who may get

1 carcinoma of the lung who are not smokers and these are
2 people with exposure to radioactive metals, arsenic,
3 perhaps over a long period of time, perhaps workers
4 in asbestos factories. There are certain groups of
5 whom we can make a reasonable supposition. Many of
6 them, however, we don't.

7 Q But is it fair to say that you don't know the cause
8 of lung cancer in non-smokers?

9 A We do in some of them, I think. In some of them
10 we don't know.

11 Q Isn't it entirely possible that what causes lung
12 cancer in a non-smoker is the same thing that causes it
13 in a smoker?

14 A Yes, I think it is possible.

15 Q And you can't rule out the fact, can you, that what
16 causes lung cancer in a non-smoker may have caused it
17 in Heaven?

18 A I think that's true.

19 Q Would you not agree that the medical profession and
20 men of science do not yet really know the basic cause
21 of cancer?

22 A I'm not sure that's true for all cancers, again,
23 the example I gave before of the cancer that developed
24 of a chronic burn scar. We may not know the exact
25 intra-cellular changes going on nor the changes at the

13 1 biological level, but certainly we do know in these
2 circumstances what causes cancer there, and I think we
3 do with cancer of the lung.

4 Q Well, does the cause include the basic mechanism,
5 the etiology of the disease include the basic mechanism
6 by which it's caused?

7 A The answer I think I would have to expand on, I
8 don't think it's that simple. For example, we know in
9 general terms that the tubercle bacillus causes pulmon-
10 ary tuberculosis. We don't know precisely the cellular
11 mechanisms by which it causes pulmonary tuberculosis.

12 Not everybody accepts that the tubercle bacillus will
13 cause pulmonary tuberculosis in susceptible people.

14 Q Doctor, you are aware, are you not, that millions
15 of dollars are being spent on research at the present
16 time and they have been in the past?

17 A Yes.

18 Q To determine the cause of lung cancer.

19 A Yes.

20 Q And of course, all that money wouldn't be spent
21 and all that effort wouldn't be made if we know...
22 if men of science know the cause of lung cancer, isn't
23 that correct?

24 A Not necessarily.

25 Q Doctor, you mentioned about knowing that tubercule-

1 sis was caused by this particular type of bacillus?

2 A Yes.

3 Q In every case of TB, that bacillus is present,
4 isn't it?

5 A We assume it is. It has not been isolated and
6 grown in some cases, admittedly rare, where there is
7 evidence of tuberculosis.

8 Q The bacillus is the cause?

9 A We generally accept that it is but to amplify
10 this question you're getting at, is do we know the
11 precise intra-cellular aberrations or changes? No.
12 don't know even though it is quite definitely assumed
13 to be caused by the tubercle bacillus. And I think the
14 analogy holds true of cancer.

15 Q Well, Doctor, if some man discovers the basic
16 cause of cancer, wouldn't you agree that it is going
17 to make headlines all over the country?

18 A Yes.

19 Q And that he'll probably get a Nobel Prize?

20 A I would hope so.

21 Q Then wouldn't you agree that the basic cause of
22 lung cancer has not yet been found?

23 A I think the basic cause, if you mean at the
24 level that we're considering today is smoking of
25 cigarettes. It does not mean that it's the basic

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1 cause in terms of intra-cellular change. From my own
2 study, I think that the basic cause is the chronic
3 irritation from the inhalation of smoke from cigarettes
4 over a long period of time.

5 Q But you would not say that the etiology of cancer
6 has now been discovered by me....

7 A No, indeed.

8 Q Doctor Mackenzie?

9 A No, indeed.

10 Q You mentioned some other suspected causes of lung
11 cancer?

12 A Several others.

13 Q One of the suspected causes is genetic or heredi-
14 tary factors, is that not correct?

15 A In terms of lung cancer?

16 A Yes?

17 A Not to my knowledge. There are certain families,
18 certainly where there appears to be more cancer than
19 should be their lot, but I think that's about as far
20 as I'd be willing to accept.

21 Q I'm not talking about what you would accept, Doctor...

22 A On what is accepted.

23 Q I'm talking about what men in medical science sus-
24 spect as possible causes of lung cancer.

25 A Something you indicate?

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1 Q: That's one of the things suspected a genetic factor
2 or an inherited factor?

3 A: Perhaps an inherited predisposition but that's as
4 far as I would accept, no further.

5 Q: Do you know how many of Mr. Weaver's relatives,
6 forebears, I mean, died from cancer?

7 A: I know there was at least one. His history was
8 reviewed here earlier. Certainly I wouldn't.

9 Q: Were you ever advised how many of his forebears
10 died with cancer or with some form of lung disease?

11 A: Perhaps I was, but I only recall one other.

12 Q: You were never advised that there were somewhere
13 around a dozen, give or take one or two maybe?

14 A: I've completely forgotten it if I ever was.

15 Q: There are other theories than any genetic theory
16 regarding possible cause or causes of lung cancer,
17 aren't they?

18 A: Yes.

19 Q: One of those is a virus, is that not correct?

20 A: There has been speculation, yes, of viruses.

21 Q: And one is air pollution?

22 A: Yes.

23 Q: And one suspected factor is hormonal or endocrine
24 factor?

25 A: I think this is true to a large extent in cancer

1 Q There about 90 percent of all cancers are lung
2 cancers, is that correct?

3 A Perhaps that's a true figure. I haven't received
4 it, but a high incidence, this is true. But there are
5 other workers, you know, who have a high incidence of
6 lung cancer, too, besides these.

7 Q Such as working around asbestos?

8 A Asbestos, yes, other kinds of metal workers, I
9 think some metal workers, perhaps.

10 Q Workers that are inhaling gasoline fumes?

11 A I'm not sure, this may be so.

12 Q You feel that may be so?

13 A May be so.

14 MR. JAMES: That's all, Doctor. Thank you.

15 Do you have anything that we can use to
16 identify this? Don't you remember now that
17 you took these other depositions for me and
18 we had a terrible time getting these marked
19 properly.

20 DR. HACHITZEL: I'm not so sure I can
21 identify that as, because you know, that's a
22 pathology code.

23 MR. JAMES: Could a pathologist look at it
24 and tell that this is a likely slide?

25 Can't you tell us whether this is the one

1 of the lung on the difference between rates and the
2 respective incidences. This, I think is under some
3 suspicion. I'm quite sure of this.

4 Q Well, none of these are medical science...none
5 of these is medical science sure of, isn't that correct?

6 A None of which ones?

7 Q Any of them that have been suspected of causes of
8 lung cancer?

9 A No, that's not true. There are certain causes
10 that are very well accepted and you've mentioned some
11 of those that I think everyone would accept. There
12 are some of the miners in certain districts of Central
13 Europe have a very high incidence of cancer and you
14 could well accept that their exposure there has the
15 basic etiology involved in their exposure to this, so
16 it's not true that we're totally unaware of causes of
17 lung cancer.

18 Q You're referring to the Schmeiburg miners in
19 Czechoslovakia?

20 A This is one group, certainly.

21 Q And these are all miners of this particular ore?

22 A That's my understanding, yes.

23 Q And isn't that uranium, ore that has some
24 radioactivity?

25 A Yes radioactivity.

END

1 you looked at?

2 DR. MACHENWITZ: No, we asked for it. I
3 assume it is, but I think we could merely
4 check that number, but I didn't you know,
5 put any mark on that or even look at the
6 number. It was just presented to me.

7 MR. JAMES: Would it be the same number that
8 we have on our slide that was introduced in
9 evidence?

10 DR. MACHENWITZ: It's 51032 which is the same
11 number as the pathology accession number of
12 the report from the scalene node biopsy.

13 MR. JAMES: That would identify it. Doctor,
14 do you have obtained for us from the depart-
15 ment of pathology of the University of
16 Missouri Medical Center a slide, apparently
17 contains specimens of some kind of tissue,
18 is that correct?

19 A. Correct.

20 Q. And now that you have compared the number of this
21 slide with the number carried on the pathologists report
22 in Weaver's chart, can you identify that as being a
23 slide prepared at your request by the pathology depart-
24 ment for inspection by you here in the last day or two?

25 A. Yes.

1 Q Now, let's seal it in an envelope and give it to
2 the reporter.

3 DR. HENNER: Before you seal it, shouldn't
4 the reporter mark the envelope. It will
5 be difficult for him to write on it with
6 that inside.

7 (DEFENDANT MARKED DEFENDANT'S DEPOSITION EXHIBIT NUMBER
8 205-23-69 FOR IDENTIFICATION)

9 Q Doctor, I'll hand you what has been marked by
10 the reporter as Defendant's Deposition Exhibit 2, dated
11 May 23, 1969, and ask you if that's an envelope of the
12 University of Missouri Department of Surgery containing
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1 the slide that we've been talking about?

2 A It is.

3 Q And I believe you stated that you had not examined
4 this slide carefully?

5 A That's correct.

6 Q And this slide does contain several cuts from a
7 specimen of tissue?

8 A Yes, specimen or specimens.

9 Q Oh, I thought it was from one specimen. Very
10 well, it's several cuts from either a specimen or
11 more than one specimen of tissue.

12 MR. JAMES: We offer this in evidence.

13 Mr. Miller is counting, temporarily the...

14 all the slides in the pathology department,
15 including the one that I have been keeping
16 in my custody and the one that's introduced.
17 George, I suppose we have the same agreement
18 that if I want to use them for someone to
19 look at, I can get them at your convenience
20 and then you'll have them back if you want
21 someone to look at them.

22 MR. MILLER: I had no idea that there was
23 more than one slide. I see that there are
24 several slides and might attempt to, briefly
25

1 MR. MILLER with Mr. James, to identify the
2 total number of slides.

3 MR. JAMES: Do you want to just state into
4 the record the total number of slides?

5 MR. MILLER: Yes. Let the record show that
6 the total number of slides contained in a
7 black plastic box handed to me by Mr. James
8 is twelve.

9 A Twelve? I didn't know there were that many either.

10 MR. MILLER: And that these slides, at least
11 Exhibit Number 39 bears the number C27034.
12 I see from looking at these slides that they
13 have various numbers. Looking at Exhibit
14 Number 30 and it bears the number S51082
15 and then looking at number 30....29, it
16 bears the number S51041. Now you've
17 identified this envelope that we've just
18 been talking about as having a number similar
19 to the one on the pathologists report, is
20 that correct, Dr. Mackenzie?

21 A The number S51032 is the number that is on the
22 pathologists report on the left scalene node biopsy.

23 MR. MILLER: Then, is it understood that
24 in these twelve slides, the twelve slides
25 bear various numbers?

11-33

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1 A Yes, they include all the slides used in the two
2 biopsies as well as the, I suppose, the cytology studies.

3 REDIRECT EXAMINATION

4 BY MR. MILLER:

5 Q Now, Doctor Mackenzie, when you identified this last
6 slide that was presented to you today, as I understand,
7 the only way you can identify it is the fact that it
8 bears the same number as the pathologist's report bears
9 in the University Medical Report, is that correct?

10 A That's correct.

11 Q And you have not actually examined the slide up
12 here, during this deposition, to determine whether or
13 not the slide you looked at?

14 A No.

15 Q Dr. Mackenzie, you were asked by Mr. James, that
16 wasn't it generally accepted among medical authorities
17 that there was no determined cause of lung cancer and
18 your answer was no, that there were certain types of
19 lung cancer or certain causes that were known, isn't
20 that true?

21 A Yes.

22 Q I'll ask you if it is not generally accepted that
23 among medical authorities that smoking is one of the
24 accepted causes of lung cancer?
25

1 MR. JAMES: I'll object to that as being

2 MR. JAMES: leading and suggestive.

3 THE COURT: Overruled.

4
5 Q You may answer.

6 A Yes.

7 Q And I'll ask you whether or not among medical
8 authorities it is generally accepted that there are
9 various causes of various types of cancer and not all
10 cancers are caused

11 A Would you repeat that?

12 Q Yes, we'll strike that. Mr. James asked you if
13 someone were to suddenly come up with the cause of lung
14 cancer, he would be given a medal and would be acclaimed
15 as a hero in the public. I'll ask you whether or not it's
16 true among medical authorities that, or it's generally
17 accepted among medical authorities that there are...that
18 various types of cancer have different causes?

19 A I think that's true, yes.

20 Q And it is accepted among medical authorities that
21 there is no one basic cause of all cancers grouping them
22 together, that's true, isn't it?

23 A I think that's generally so, yes.

24 Q Now, you were also asked by Mr. James if you could
25 call...strike that. If there were cases of non-smokers
who had lung cancer and your answer was yes, and you were

asked if that cause of lung cancer in a non-smoker may have been the cause of lung cancer in Mr. Weaver. Now let me ask you this question. What has been your observation and experience as a medical practitioner in this specific field that we're dealing with right now, as to whether or not you have observed or seen any of this particular type of cancer that you found in Mr. Weaver in non-smokers?

A I do not recall any in my own experience of this type of cancer being seen in non-smokers.

Q Now in a non-smoker, is it not a fact that the type of cancer that is usually found is Adeno carcinoma?

A Yes, that is usually true.

Q And if I understand you correctly then, from your observation and experience and study, non-smokers do not get the undifferentiated cancer?

MR. JAMES: Now, just a minute. I object to that as being leading and suggestive.

THE COURT: Overruled.

Q You may answer.

A Could we have that one back again, please?

Q Strike the question. I'll rephrase my question, Doctor. Is it a generally accepted fact among medical authorities that the type of cancer you found to exist in Mr. Weaver's lung does not usually, or rephrase it by

MNAT 00002529

1 saying, rarely exists in a non-smoker?

2 A Yes, I think that's true.

3 Q You discussed with Mr. James the difference
4 between a primary and a secondary cancer. Let me
5 ask you this, was there anything in your examination,
6 your entire treatment, the x-rays, the entire medical
7 records, both of yours and the Watzel Hospital that
8 you studied and from your own personal observation and
9 treatment of this man, was there anything that led you
10 to believe that the cancer of the lung was not the
11 primary cancer in this man?

12 A No.

13 Q You discussed briefly with Mr. James the question
14 of carcinoma as opposed to sarcoma. Was there anything,
15 Doctor, in this man's medical records, or in your
16 examination, treatment of him, anything that would lead
17 you to believe or even suspect that the lesion or the
18 cancer that you found in the lung was sarcoma?

19 A No, we never seriously considered sarcoma.

20 Q Was there ever any question in your mind as to
21 whether or not the primary cancer was in the node, this
22 lymph node that the biopsy was made from?

23 A No, we thought this was a secondary deposit or
24 metastasis.

25 Q And did you believe that it had metastasized from

1 the cancer of the lung?

2 A Yes.

3 Q Was any determination or tests made upon Mr.
4 Weaver to determine whether or not he had tuberculosis?

5 A There were skin tests made.

6 Q Were these made to determine whether or not he
7 did have tuberculosis?

8 A The fact that the intermediate strength of the
9 tuberculin skin test was negative would lead one away
10 from the diagnosis of active tuberculosis, but is not
11 conclusive evidence against it.

12 Q You were questioned about the sputum. As I recall
13 there were about five sputum tests made. Four of them
14 you said were successful tests in the fact that they
15 showed no cancer?

16 A No, four of them were successful in that they were
17 technically acceptable to the pathologist. One was
18 technically not a satisfactory specimen.

19 Q And that these specimens did not show any cancer
20 cells in the sputum?

21 A That's correct.

22 Q Now would the fact that there were no cancer cells
23 that showed up in those four sputum tests, would that
24 any way indicate that there was no cancer of the lung?
25

END

1
2 MR. JAMES: I object to that as being.
3 leading and suggestive.

4 THE COURT: Overruled.

5 A No, it would not.

6 Q What, if anything, Doctor, would the sputum tests
7 indicate with reference to cancer of the lung?

8 A Well, of course, one may get actual malignant
9 cells in cancer of the lung, but many times, in cases
10 of proved cancer, there are no abnormalities detected
11 by this test. If it's positive, it's helpful. If it's
12 negative, it's not.

13 Q I gather from what you say that this would not be
14 a determining factor at all?

15 A Only if it were positive.

16 Q Only if it were positive. If the x-ray that you have
17 explained to the jury, showed this mass in the left
18 portion of the lung and you believed that it was cancer
19 from all of your medical experience as a medical
20 practitioner, where would be the first place you would
21 look to determine whether or not it was metastasizing?

22
23 MR. JAMES: I object to that as leading
24 and suggestive, as assuming there was
25 someplace he would look first.

THE COURT: Overruled. 11:35

1 Q You may answer.

2 A If you were concerned about metastases (sic)
3 from the lung, the first place you would look would
4 be in the scalene area we've described before.

5 Q And is that the place where you did find the cancer
6 cells?

7 A Yes.

8 Q I've asked you, Doctor, several questions, in
9 which I have requested your opinion. Let me ask you
10 this. In giving me these opinions, have they been
11 based upon reasonable medical certainty?

12 A Yes, they have.

13 MR. MILLER: I believe that's all.

14 RE-CROSS EXAMINATION

15 BY MR. JAMES:

16 Q Doctor, these cytology tests did not in any way
17 indicate cancer either, did they?

18 A They did not.

19 Q You've mentioned that you cannot look at this
20 slide that we've introduced in evidence and tell whether
21 it's the one you looked at the other day?

22 A With absolute certainty.

23 Q Well, when did you look at it the other day?

24 A We looked at it this morning.

25 Q You mean you're not sufficiently qualified as a

26 4433

MNAT 00002533

1 pathologist to tell if this is the same slide you
2 looked at this morning?

3 A Well, I did not examine it this afternoon under the
4 microscope.

5 Q Could you tell if you examined it?

6 A And even if we did examine it, it's possible that
7 a very similar specimen with the same microscopic
8 findings could be placed before me and I could not
9 identify it as being the same one I saw this morning.

10 Q Well, when you looked at it this morning, you
11 couldn't identify that as being one from Weaver's
12 tissue, could you?

13 A Only that it had the same number as the major
14 block of tissue and it was presented from our patholo-
15 gists as being from the specimen.

16 Q And this one was introduced in evidence as the
17 same number and it was sent down here by the same man?

18 A Yes.

19 Q So you can identify it as well as you can identify
20 the one you looked at this morning?

21 A Except that he didn't give it to me personally as
22 Mr. Weaver's specimen from Mr. Weaver's biopsy. I
23 assume it is.

24 Q Well, you called him up and asked him to send it
25 down and he said he would and you sent your secretary up

1 to get it and she came back with a specimen?

2 A Right.

3 Q And you trust your secretary, don't you?

4 A Implicitly.

5 Q Implicitly. The fact remains as to the slide you
6 looked at this morning and the slide you looked at this
7 afternoon, so far as you can tell are the same slide and
8 whether they came from Weaver or not depends upon
9 whether they sent you what you requested?

10 A Right.

11 MR. JAMES: Doctor, that's all.

12 MR. MILLER: On the record, let me ask Mr.
13 James a question. Without belaboring the
14 record as to further identification of
15 these University Medical Records, I did
16 that in a very limited manner. I'm asking
17 you if you have any objection or will have
18 any objection at the trial of this case
19 as to whether or not these records have
20 been sufficiently identified?

21 MR. JAMES: I have no objection whatever
22 unless my associates do. We can agree that
23 all records and all the depositions
24 introduced in the record may be put in evi-
25 dence subject only to objections as to

competency and materiality and relevancy.

The other objections have not anything to do with identification.

MR. MILLER: That's all.

2188

MNAT 00002536

1 C
2 MR. GEORGE MILLER: At this time I would like to
3 offer in evidence those exhibits that have been marked. We
4 may have offered them, and I believe we did, but if we didn't,
5 I want to offer them. I offer all the exhibits that we have
6 had marked.

7 (Whereupon counsel proceed to the bench where the
8 following proceedings were had:)

9 MR. HARDY: If I know what you intend to say, I sure
10 have no objection, but you had that book marked --

11 MR. GEORGE MILLER: I withdraw the offer of the book.

12 MR. HARDY: What you are talking about is all of the
13 X-rays, slides and those things and you are not offering
14 such things as Exhibit 46 which the Judge has already talked
15 to us about.

16 MR. GEORGE MILLER: I think No. 46 is the only one.

17 MR. HARDY: I think that's probably right.

18 THE COURT: I think most of the other exhibits have
19 already been admitted - if they have not, they will now be
20 admitted except No. 46.

21 (Court discusses the matter of adjournment with the
22 jury and counsel, off the record)

23 THE COURT: We will take a very short recess, about
24 five minutes, and then we will go ahead for an hour or so
25 tonight.

(Whereupon a short recess was taken)

1133

(All Plaintiffs' Exhibits heretofore
marked for identification, except
Plaintiffs' Exhibit No. 46, and not
heretofore received in evidence by
the Court, are now received in
evidence.)